JR. PAC-MAN

UNDER AGREEMENT BY NAMCO LTD.

INSTRUCTION MANUAL

Bally

MIDWAY MFG. CO.

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U.S.A.

Phone: (312) 451-9200 Cable Address: MIDCO Telex No.: 72-1596

FORM NO. 0A29-00300-0000

WARNING

THIS GAME MUST BE GROUNDED. FAILURE TO DO SO MAY RESULT IN DESTRUCTION TO ELECTRONIC COMPONENTS.

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a CLASS A computing device pursuant to SUBPART J of PART 15 of FCC RULES, which are designed to provide reasonable protection against such interference when operated in a commerical environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

ELECTRICAL BULLETIN: FOR ALL APPARATUS COVERED BY THE CANADIAN STANDARDS ASSOCIATION (CSA) STANDARD C22.2 NO. 1, WHICH EMPLOYS A SUPPLY CORD TERMINATED WITH A POLARIZED 2-PRONG ATTACHMENT PLUG.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

Printed in U.S.A.

JR PAC MAN

GAME OPERATION

JR. PAC-MAN is a one or a two player game with a color T.V. monitor. The game has four possible modes of operation: ATTRACT, READY-TO-PLAY, PLAY, and SELF-TEST.

SELF-TEST MODE

The Self-Test mode is a special mode for checking the game switches and computer functions. It is the easiest and best way to check for proper operation of the entire game.

NOTE: Putting the game into Self-Test will cause it to *erase* any CREDITS it has on it from its memory.

You may begin a Self-Test at any time after the power to the game is on by sliding the Self-Test switch to the "ON" position. Now that the game is in the Self-Test mode, it will react as follows:

1. First, you will see several moving multicolored patterns appear on the screen.
2. Immediately following this, a right side up test display is shown on the monitor screen. The game will remain in this Self-Test mode until you set the Self-Test switch back to the "OFF" position.
3. To check your game function switches and buttons (coin counter switches, door opening button, 1 PLAYER and 2 PLAYER buttons): activate each one while the game is in the Self-Test mode. You should hear a different game sound for each activation. If you do not hear it, the switch/button is either not working, miswired, or disconnected. Check it out thoroughly.
4. When finished with the Self-Test mode, slide the Self-Test switch back to the "OFF" position.
5. Normal game functions will now return to the monitor screen.
6. If you wish to produce **ONLY** a CROSS HATCH test pattern on the monitor screen for further use, slide the Self-Test switch to the "ON" position, wait for the Self-Test display to appear, and then turn it "OFF" again. A cross hatch pattern appears immediately on the screen and will remain for about one second. To retain it, set the Self-Test switch back "ON" again quickly (BEFORE the cross hatch pattern disappears). It will now remain on the screen until you set the Self-Test switch to the "OFF" position again. At that time normal game functions will return.

ATTRACT MODE

1. The Attract mode starts:

   ☐ Just after power has been turned on to the game. (Self-Test switch is in the "OFF" position.)

   ☐ After a Self-Test has been completed. (Performing a Self-Test sets the credits in the games memory to zero "0".)

   ☐ After a play has been finished and there are no more credits left in the games memory.

   ☐ No matter where the game is in the Attract mode sequence, it will immediately go to the Ready-To-Play mode display as soon as a game has been paid for.

READY-TO-PLAY MODE

1. The Ready-To-Play mode starts when enough coins have been accepted for a 1 or a 2 player game.
2. The Ready-To-Play mode ends when either the "1 PLAYER" or the "2 PLAYER" push button is pressed.
3. If no START button is pressed, the displays will remain on the monitor screen indefinitely.

PLAY MODE

1. The Play mode begins when either the "1 PLAYER" or the "2 PLAYER" start button is pressed.
2. The Play mode ends when all of your JR. PAC-MEN have been caught. When this happens, "GAME OVER" is written across the center of the monitor screen.

TWO PLAYER OPERATION

In the two player mode, the rules of play are the same as in the single player mode. There are some additional rules, however.

1. The players must take turns at the controls.
2. Your turn lasts until the pursuers catch your JR. PAC-MAN. At this point, the game will do one of several things depending on whether or not the caught JR. PAC-MAN was your last or if you still have others remaining in reserve.

JR. PAC-MAN CAUGHT - OTHERS REMAINING IN RESERVE

- ☐ The GAME stops.
- ☐ Next, the Rack changes to the Rack number the other player is in, and what's left of the other players Rack and his JR. PAC-MAN appear on the screen.
- ☐ Play then begins for the other player.

JR. PAC-MAN CAUGHT - NO OTHERS REMAINING IN RESERVE

- ☐ Game displays "GAME OVER".
- ☐ The Rack changes to the Rack number the other player is in, what's left of the other players maze and his JR. PAC-MAN appear on the monitor screen, and game play then begins for the other player.
- ☐ After the last player has finished his game, the game will either go to the Attract mode (if there are no more credits left in its memory) or into the Ready-To-Play mode (if there are still credits left in its memory).

RACK ADVANCE

Your NEW game is equipped with a RACK ADVANCE feature that can allow you to view and/or play the higher racks for test purposes. It is activated in the following manner:

1. Open the games coin door and rear access door.
2. Turn the power to the game on.
3. Gently pull out the plunger on the Safety Interlock Switch located just inside the rear access door.
4. Using the Test Credit Button, put a credit on the game.
5. Press the "1 PLAYER" start button.
6. **IMMEDIATELY** set switch number 7 of the DIP SWITCH PACK located at 9-D on the games P.C. Board to the "ON" position.
7. The game will now automatically advance through it's racks continuously.
8. When finished, set the above switch back to the "OFF" position, and close and lock all the games doors.
9. Normal game functions will now return.

JR. PAC-MAN SCORING

DESCRIPTION	POINTS AWARDED
SMALL DOTS	10 POINTS EACH
LARGE DOTS	50 POINTS EACH
ENERGIZER DOTS	50 POINTS EACH
TRICYCLE	100 POINTS EACH
KITE	200 POINTS EACH
DRUM	500 POINTS EACH
BALLOON	700 POINTS EACH
TRAIN	1000 POINTS EACH
CAT	2000 POINTS EACH
SODA MUG	5000 POINTS EACH

JR. PAC-MAN

OPTION SWITCH SETTINGS

METHOD OF PLAY

	SW#1	SW#2	SW#3	SW#4	SW#5	SW#6	SW#7	SW#8
FREE PLAY	ON	ON						
*1 COIN 1 PLAY	OFF	ON						
1 COIN 2 PLAYS	ON	OFF						
2 COINS 1 PLAY	OFF	OFF						

NUMBER OF JR. PAC-MEN PER GAME

	SW#1	SW#2	SW#3	SW#4	SW#5	SW#6	SW#7	SW#8
1 JR. PAC-MAN			ON	ON				
2 JR. PAC-MEN			OFF	ON				
*3 JR. PAC-MEN			ON	OFF				
5 JR. PAC-MEN			OFF	OFF				

BONUS JR. PAC-MEN

	SW#1	SW#2	SW#3	SW#4	SW#5	SW#6	SW#7	SW#8
*BONUS JR. PAC-MAN AT 10,000 POINTS					ON	ON		
BONUS JR. PAC-MAN AT 15,000 POINTS					OFF	ON		
BONUS JR. PAC-MAN AT 20,000 POINTS					ON	OFF		
BONUS JR. PAC-MAN AT 30,000 POINTS					OFF	OFF		

SPECIAL FUNCTIONS

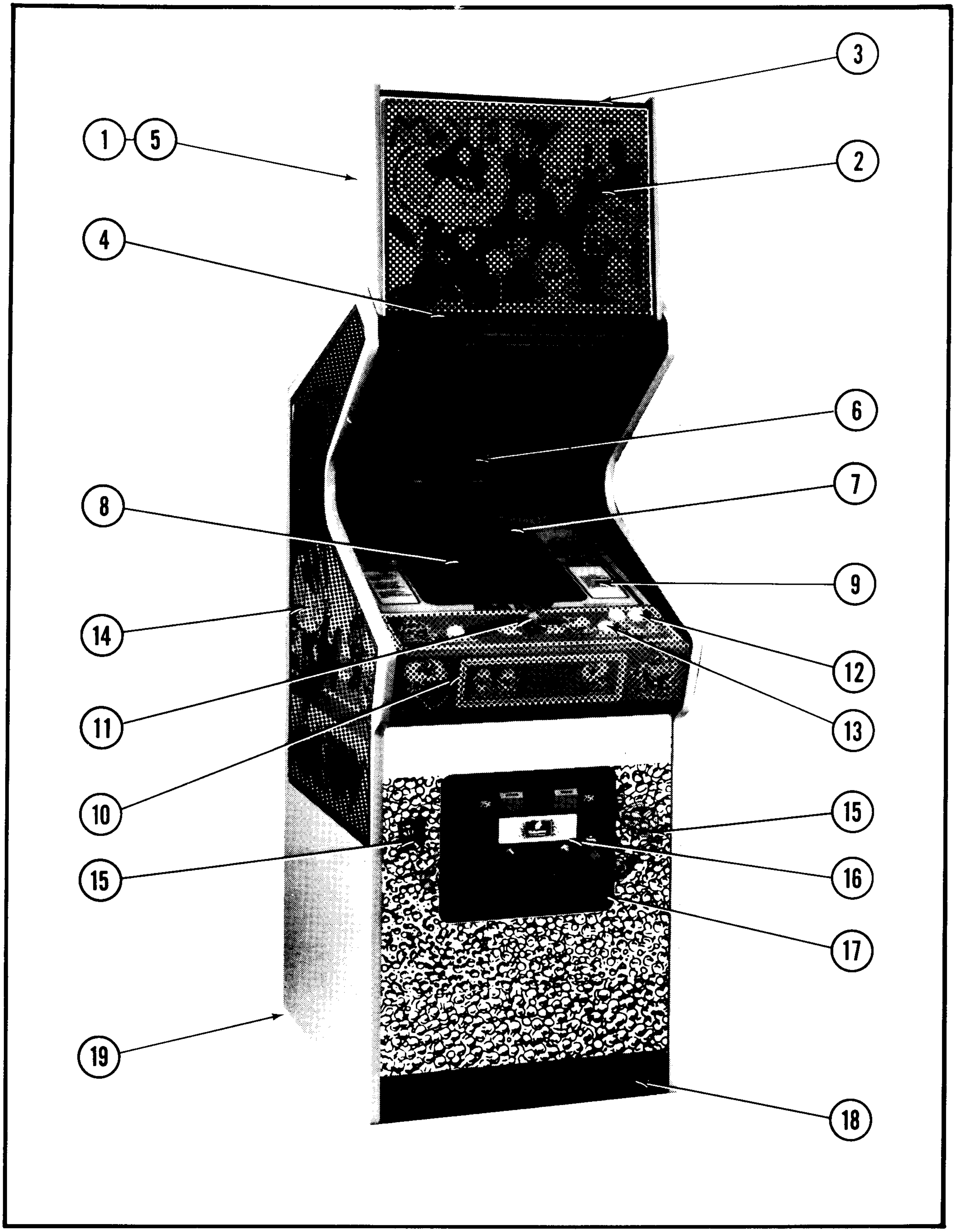
	SW#1	SW#2	SW#3	SW#4	SW#5	SW#6	SW#7	SW#8
AUTOMATIC RACK ADVANCE							ON	OFF
FREEZE VIDEO (MONITOR PRESENTATION STOPS MOVING)							OFF	ON
*GAME OPERATES NORMALLY							OFF	OFF

*INDICATES FACTORY RECOMMENDED SETTINGS

PART NO. M051-00A29-A007

II. Illustrated Parts Breakdown

NO. 0A29 - JR. PAC-MAN - UPRIGHT - FRONT

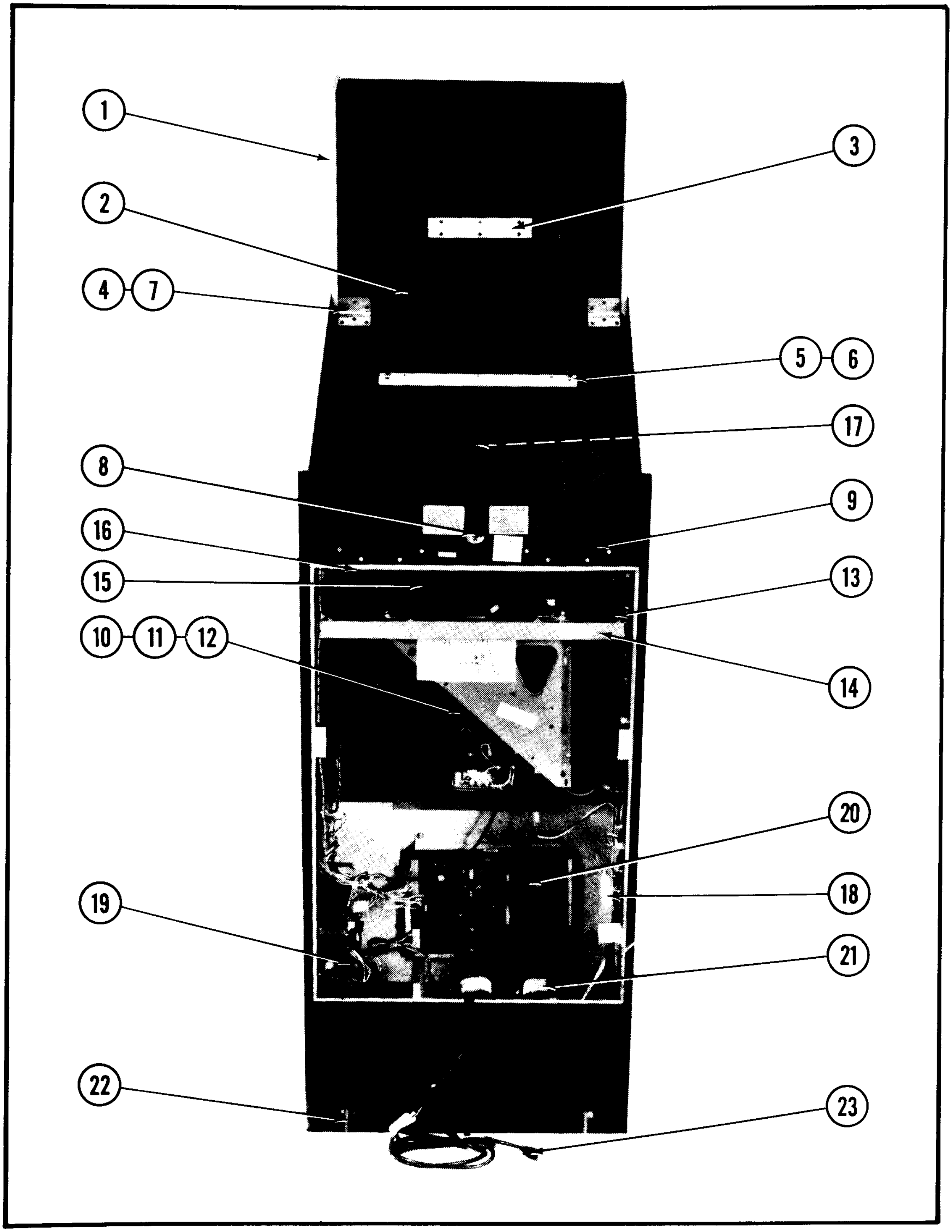


NO. 0A29 - JR. PAC-MAN - UPRIGHT - FRONT - PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	A353-00011-0000	HEADER ASSY.
2	0A29-00900-00XF	HEADER - 17-7/16"x21⅞"
3	0353-00103-00XF	HEADER RETAINER - UPPER
4	A353-00014-00XF	HEADER RETAINER ASSY. - LOWER
	0017-00101-0138	#8-⅝ TORX TAMPER RESISTANT SCR. (6 REQ'D.)
5	A353-00021-0000	FLUOR. HEADER LIGHT ASSY. (2 REQ'D.)
6	0017-00009-0393	BLACK SPEAKER GRILL W/SLOTS
	0017-00003-0259	6"x9" SPEAKER - 8 OHM, 8W.
	0017-00101-0127	#8-32x1½ CARRIAGE BOLT (4 REQ'D.)
	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
7	0508-00900-0000	T.V. BEZEL
8	0508-00905-0000	PLEXI-DIFFUSER
	0508-00901-0000	PLEXI-GLASS CLIPS (4 REQ'D.)
	0017-00101-0017	#6x½ BLK. SLT. HEX HD. SCREW (4 REQ'D.)
9	0A29-00900-00XF	MAIN VIEWING GLASS
	0508-00108-0000	GLASS STOP BRKT.
	0017-00101-0017	#8x¾ SLT. HEX HD. M.S. (3 REQ'D.)
10	A353-00019-0000	OVERLAY - CONTROL SHELF PLATE ASSY.
	A353-00018-0000	CONTROL SHELF PLATE WELD ASSY.
	0353-00903-0000	DECORATIVE OVERLAY
	0353-00107-0100	CONTROL SHELF MTG. BRKT. - RIGHT
	0353-00107-0200	CONTROL SHELF MTG. BRKT. - LEFT
	0555-00901-0000	PLASTIC LOCATING PIN (4 REQ'D.)
	0017-00009-0534	BASSICK CLAMP (3 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT. HEX HD. SCR. (10 REQ'D.)
	0353-00906-0000	CONTROL SHELF STRAP
11	A353-00015-0000	CONTROL ASSEMBLY
	A353-00006-0000	CONTROL SHELF CABLE ASSY.
12	0017-00042-0260	PUSH BUTTON ASSY. - WHITE (2 REQ'D.)
13	0017-00042-0257	PUSH BUTTON ASSY. - YELLOW (2 REQ'D.)
	0017-00032-0093	PUSH BUTTON SWITCH W/HOLDER (4 REQ'D.)
	0017-00103-0054	⅝-11 PAL NUT (4 REQ'D.)
14	0A29-00902-0200	DECAL-LEFT SIDE
	0A29-00902-0100	DECAL - RIGHT SIDE (NOT SEEN)
15	0A29-00906-0000	FRONT DECAL - KIT
16	A090-00300-11BK	U.S.A. 25¢ DOUBLE COIN DOOR ASSY.
	A982-00015-0000	COIN DOOR CABLE ASSY.
17	0090-00002-04BK	LARGE COIN DOOR FRAME
	0017-00101-0121	#6-32x5/16 PHIL. TRS. HD. SCR. (3 REQ'D.)
18	0935-00906-0100	KICK PLATE - 23" LG.
19	0017-00102-0048	⅜-16x2" LEG LEVELERS (4 REQ'D.)
	0017-00103-0026	⅜-16 LEG LEVELER HEX NUTS (4 REQ'D.)

NO. 0A29 - JR. PAC-MAN - UPRIGHT - REAR



NO. 0A29 - JR. PAC-MAN - UPRIGHT - REAR - PARTS LIST

ORDER BY PART NUMBER ***ONLY***

ITEM	PART NO.	DESCRIPTION
1	A353-00011-0000	HEADER ASSY.
2	0353-00110-0000	HEADER SUPPORT BRACE
3	0353-00102-0000	SUPPORT ARM BRACKET
4	0017-00009-0545	SUPPORT HINGE (2 REQ'D.)
5	0353-00109-0000	POSITIONING BRKT.
6	0017-00101-0138	#8x⅝ TORX TAMPER RESISTANT SCR. (22 REQ'D.)
7	0017-00101-0149	#10x1⅜ TORX TAMPER RESISTANT SCR. (2 REQ'D.)
	0017-00104-0011	#10 EXT. STAR WASHER (2 REQ'D.)
	0017-00104-0039	#10 FLAT WASHER (2 REQ'D.)
8	A945-00038-0000	ON-OFF SWITCH & PLATE ASSY.
9	0894-00916-0000	PLASTIC PULL & VENT (2 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT. HEX HD. M.S. (8 REQ'D.)
10	0017-00003-0339	ELECTROHOME - 19" COLOR DUAL SYNC. HORIZ. MTG. MONITOR (OR)
11	0017-00003-0439	WELLS-GARDNER - 19" COLOR DUAL SYNC. HORIZ. MTG. MONITOR (OR)
12	0017-00003-0454	ZENITH - 19" COLOR DUAL SYNC. HORZ. MTG. MONITOR
13	0349-00101-0000	MONITOR RAIL (2 REQ'D.)
	0555-00901-0000	PLASTIC LOCATING PIN (4 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (8 REQ'D.)
14	0349-00100-0000	MONITOR MTG. ANGLE BRKT. (2 REQ'D.)
	0017-00101-0144	#10-24x⅝ SLT. HEX W/WASHER SCR. (4 REQ'D.)
	0017-00101-0082	#10x¾ UNSLOT HEX HD. BOLT (4 REQ'D.)
	0017-00104-0011	#10 EXT. WASHER (4 REQ'D.)
15	0508-00900-0000	19" T.V. BEZEL
	0508-00106-0000	BEZEL MTG. BRKT.
16	0508-00108-0000	GLASS STOP BRKT.
	0017-00101-0027	#8x¾ SLT. HEX HD. M.S. (3 REQ'D.)
17	0017-00003-0259	6"x9" SPEAKER - 8 OHM, 8W.
18	A088-00016-0000	INTELOCK SWITCH & SPRING BRKT. ASSY.
19	AA29-00006-0000	CARD RACK ASSY. W/BOARDS
20	A082-90427-A000	POWER SUPPLY P.C.B. ASSY. - 70VA.
	0624-00902-0100	P.C. SUPPORT BRKT. - 12" LG. (2 REQ'D.)
	0624-00902-0500	P.C. SUPPORT BRKT. - 6½" LG. (2 REQ'D.)
	0317-00102-0000	P.C. MTG. BRACE BRKT. (4 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (10 REQ'D.)
	0017-00104-0037	#8 FLAT WASHER (10 REQ'D.)
21	A945-00036-0002	POWER CHASSIS ASSY. - 70VA., 115V.
22	A961-00007-0000	CASTER ASSEMBLY (2 REQ'D.)
	0961-00109-0000	WHEEL BRKT. (2 REQ'D.)
	0017-00042-0255	PLASTIC WHEEL (2 REQ'D.)
	0894-00702-00XF	SHAFT (2 REQ'D.)
	0017-00100-0037	⅜" E-RING (2 REQ'D.)
23	A945-00019-0000	LINE CORD ASSY.

NO. 0A29 - JR. PAC-MAN - UPRIGHT - REAR - PARTS LIST

ORDER BY PART NUMBER ***ONLY***

ITEM	PART NO.	DESCRIPTION
		ADDITIONAL PARTS LIST
	A950-00004-0000	COIN BOX ASSEMBLY
	A950-00006-0100	WIRE COIN BOX CRADLE ASSY.
	0950-00105-0000	COIN BOX COVER
	0950-00104-0000	COIN BOX HANDLE
	0950-00101-0000	COIN DEFLECTOR (2 REQ'D.)
	0950-00900-0000	LARGE PLASTIC COIN BOX
	A097-00009-0000	BACK DOOR LOCK ASSY.
	0017-00009-0490	5⅝ SQR. VENT GRILL (4 REQ'D.)
	A353-00008-0000	MASTER CABLE W/BRKT. ASSY.
	A353-00010-0000	HIGH VOLTAGE CABLE ASSY.
	A316-00010-0000	LOW VOLTAGE CABLE ASSY.
	A508-00034-0000	AUDIO ADAPTOR CABLE ASSY.
	A508-00035-0000	VIDEO ADAPTOR CABLE ASSY.
	A508-00024-0000	SIGNAL CABLE ASSY.

PAC-MAN/MS. PAC-MAN TO JR. PAC-MAN - PARTS LIST

ORDER BY PART NUMBER ***ONLY***

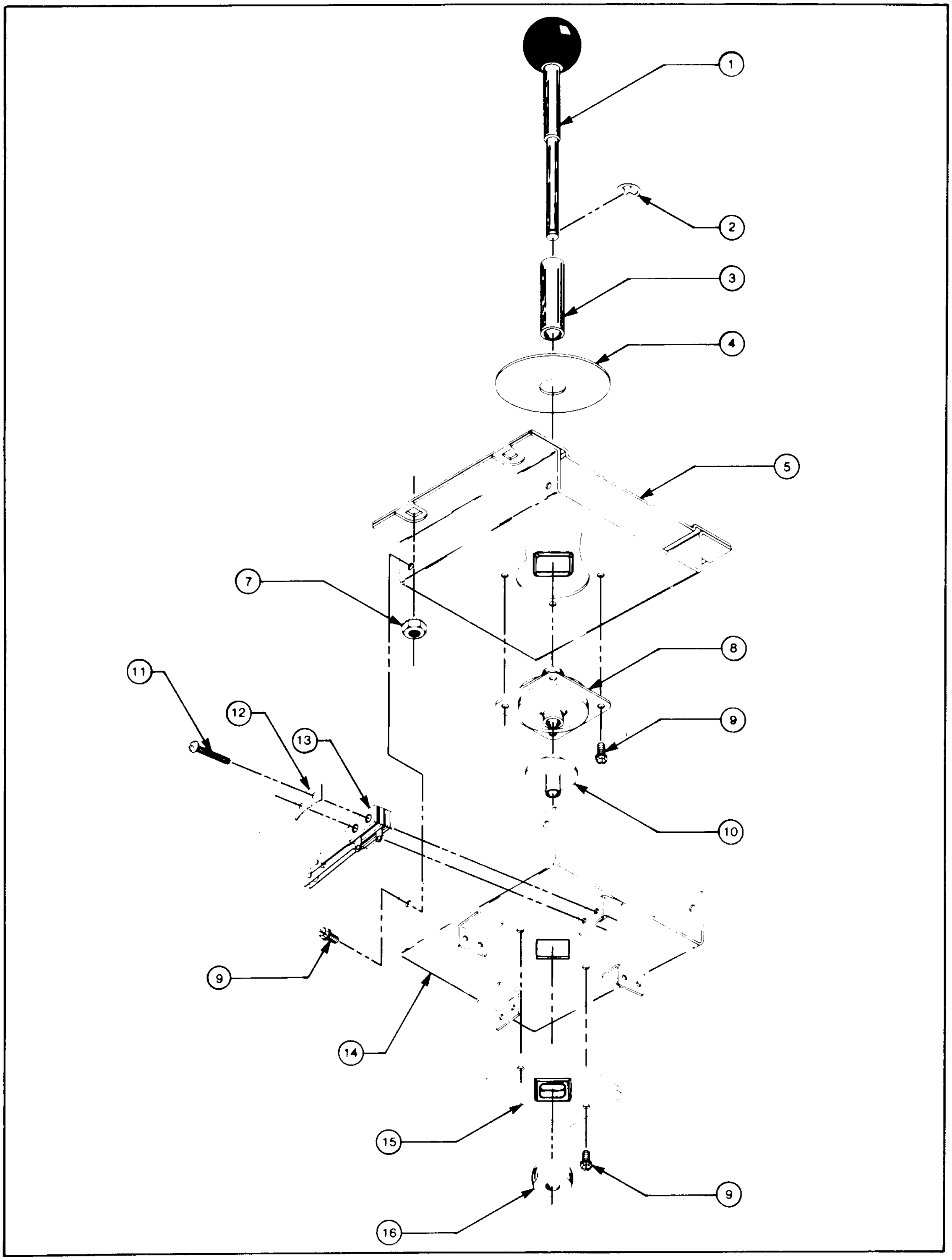
ITEM	PART NO.	DESCRIPTION
	0A29-00901-00XF	HEADER
	0A29-00908-00XF	HEADER - KIT
	0A29-00906-0000	FRONT DECAL - KIT
	0A29-00907-0000	CONTROL SHELF OVERLAY - KIT

NO. 0A29 - JR. PAC-MAN - CONTROL ASSY. - PARTS LIST

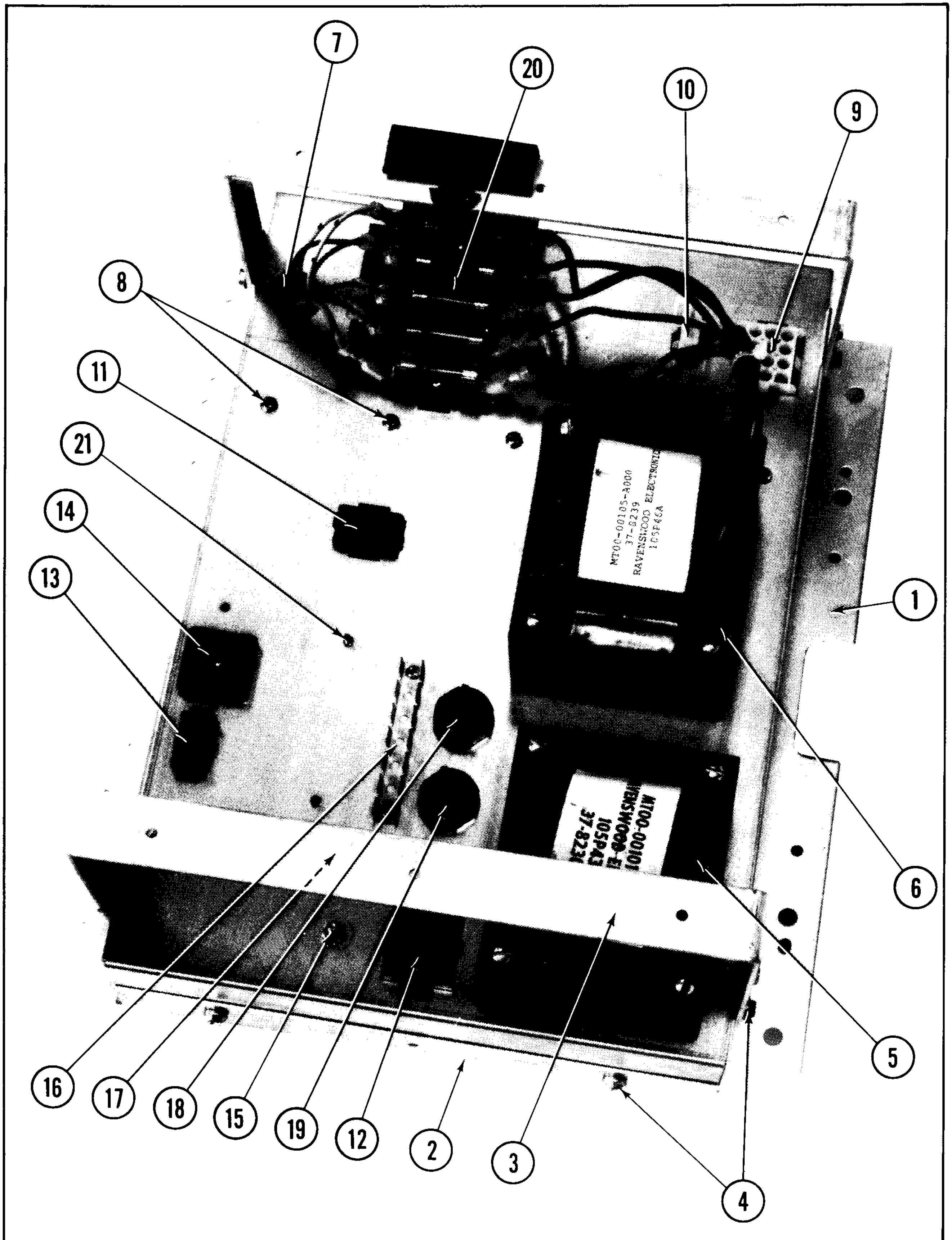
ORDER BY PART NUMBER ***ONLY***

ITEM	PART NO.	DESCRIPTION
1	A932-00022-0000	BALL & SHAFT ASSEMBLY
2	0017-00100-0025	1/4 E-RING
3	0921-00702-0000	STOP SPACER
4	0921-00902-0000	SLIDE PLATE
5	A982-00019-0000	PIVOT PLATE WELD ASSY.
7	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
8	0932-00902-0000	GROMMET
9	0017-00101-0598	#8-32 x 5/16 SLT. HEX HD. M.S. (10 REQ'D.)
10	0962-00904-0000	SLEEVE
11	0017-00101-0527	#5-40 x 5/8 SLT. RND. HD. SCR. (8 REQ'D.)
12	0020-00202-0000	SWITCH PLATE (4 REQ'D.)
13	A932-00009-0000	SWITCH ASSEMBLY (4 REQ'D.)
14	A316-00019-0000	STOP PLATE & SWITCH BRKT. ASSY.
15	0932-00905-0000	WEAR PLATE
16	0921-00700-0000	ACTUATOR

NO. 0A29 - JR. PAC-MAN - CONTROL ASSY.



NO. 0A29 - JR. PAC-MAN - POWER CHASSIS ASSY. - 70VA, 115V.

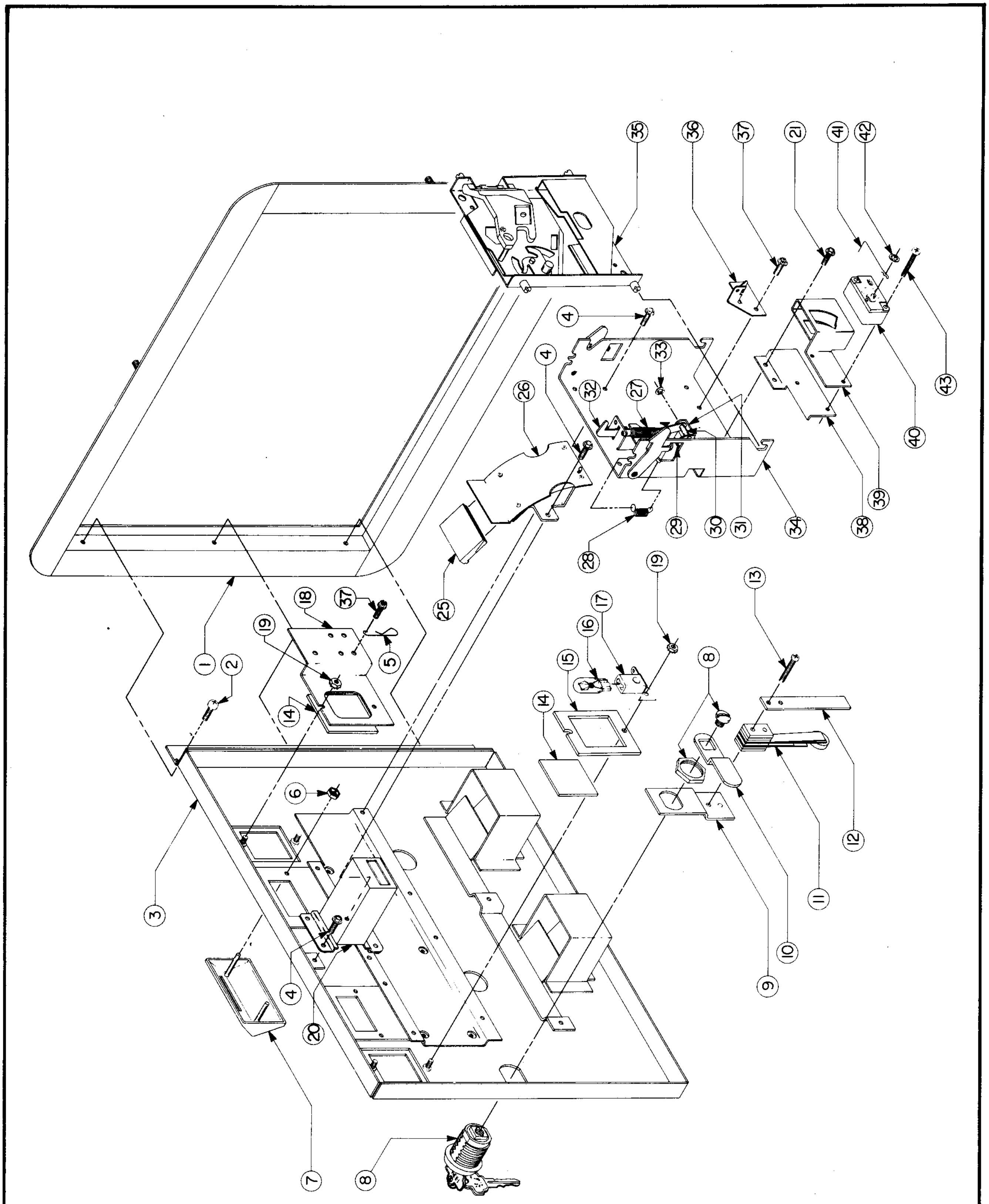


NO. 0A29 - JR. PAC-MAN - POWER CHASSIS ASSY. - 70VA, 115V. - PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	A945-00045-00XF	CHASSIS & PARTITION ASSY.
2	A945-00029-0100	MTG. PLATE & BARRIER ASSY.
3	0945-00107-01XF	STRAP (2 REQ'D.)
4	0017-00101-0123	#8 x 1/4 UNSLOT. HD. SCR. (12 REQ'D.)
5	MT00-00101-B000	ISOLATION TRANSFORMER W/O SHIELD ASSY. — 115 V., 50/60 HZ. (UPRIGHT ONLY)
5	MT00-00102-B000	ISOLATION TRANSFORMER W/SHIELD ASSY. — 115V., 50/60 HZ. (COCKTAIL ONLY)
	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
6	MT00-00105-A000	POWER TRANSFORMER W/O SHIELD — 70VA, 115V. (UPRIGHT ONLY)
6	MT000-00105-B000	POWER TRANSFORMER W/SHIELD — 70VA, 115V. (COCKTAIL ONLY)
	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
7	0945-00902-0000	SNAP BRUSHING (3 REQ'D.)
8	0017-00101-0067	#6 x 3/8 PHIL. PAN HD. SCR. (11 REQ'D.)
9	A945-00030-0400	CONNECTOR & CABLE ASSY.
10	0017-00021-0297	2 POSITION CONNECTOR
11	A945-00030-0300	CONNECTOR & CABLE ASSY.
12	A945-00030-0500	CONNECTOR & CABLE ASSY.
13	A945-00030-0200	CONNECTOR & CABLE ASSY.
14	A945-00021-0000	CONVENIENCE OUTLET ASSY.
15	0017-00101-0573	#6-32 x 1/2 PHIL. RND HD. SCR. (2 REQ'D.)
	0017-00103-0084	#6-32 HEX NUT W/SEMS (2 REQ'D.)
	A945-00025-0000	FILTER ASSY. — 125V. — UNDER CHASSIS (NOT SEEN)
16	0017-00021-0510	TERMINAL STRIP
	0017-00101-0140	#4-40 x 5/16 PHIL. PAN HD. SCR. (2 REQ'D.)
17	0017-00101-0660	#10-32 x 3/4 SLT. PAN HD. SCREW (NOT SEEN)
	0017-00104-0107	#10 FLAT WASHER
	0017-00103-0081	#10-32 HEX NUT W/SEMS
18	0017-00003-0263	SLO-BLO FUSE — 4A., 250V.
19	0017-00003-0005	FUSE — 2A., 250V.
	0017-00003-0444	FUSE HOLDER — QUICK CONN. (2 REQ'D.) — FOR ABOVE FUSES
20	0945-00904-0000	5 POSITION FUSE HOLDER
	0945-00908-0000	FUSE BLOCK INSULATOR
	0017-00003-0217	SLO-BLO FUSE — 2.5A., 250V. (2 REQ'D.)
	0017-00003-0321	SLO-BLO FUSE — 5A., 250V. (2 REQ'D.)
	0017-00003-0263	SLO-BLO FUSE — 4A., 250V.
	0945-00903-0000	FUSE HOLDER BARRIER
	0017-00101-0067	#6 x 3/8 PHIL. PAN HD. SCREW (2 REQ'D.)
21	0017-00101-0780	#6 x 1/2 PHIL. PAN HD. SCREW (2 REQ'D.)
	0017-00021-0629	5 POSITION TERMINAL STRIP (UNDER CHASSIS)
	A945-00019-0000	LINE CORD ASSY. — 115V. (NOT SHOWN)
	A945-00033-0000	MAGNETIC SHIELD & LABEL ASSY. (NOT SHOWN)

FRONT DOOR ASSEMBLY — U.S.A. 25¢

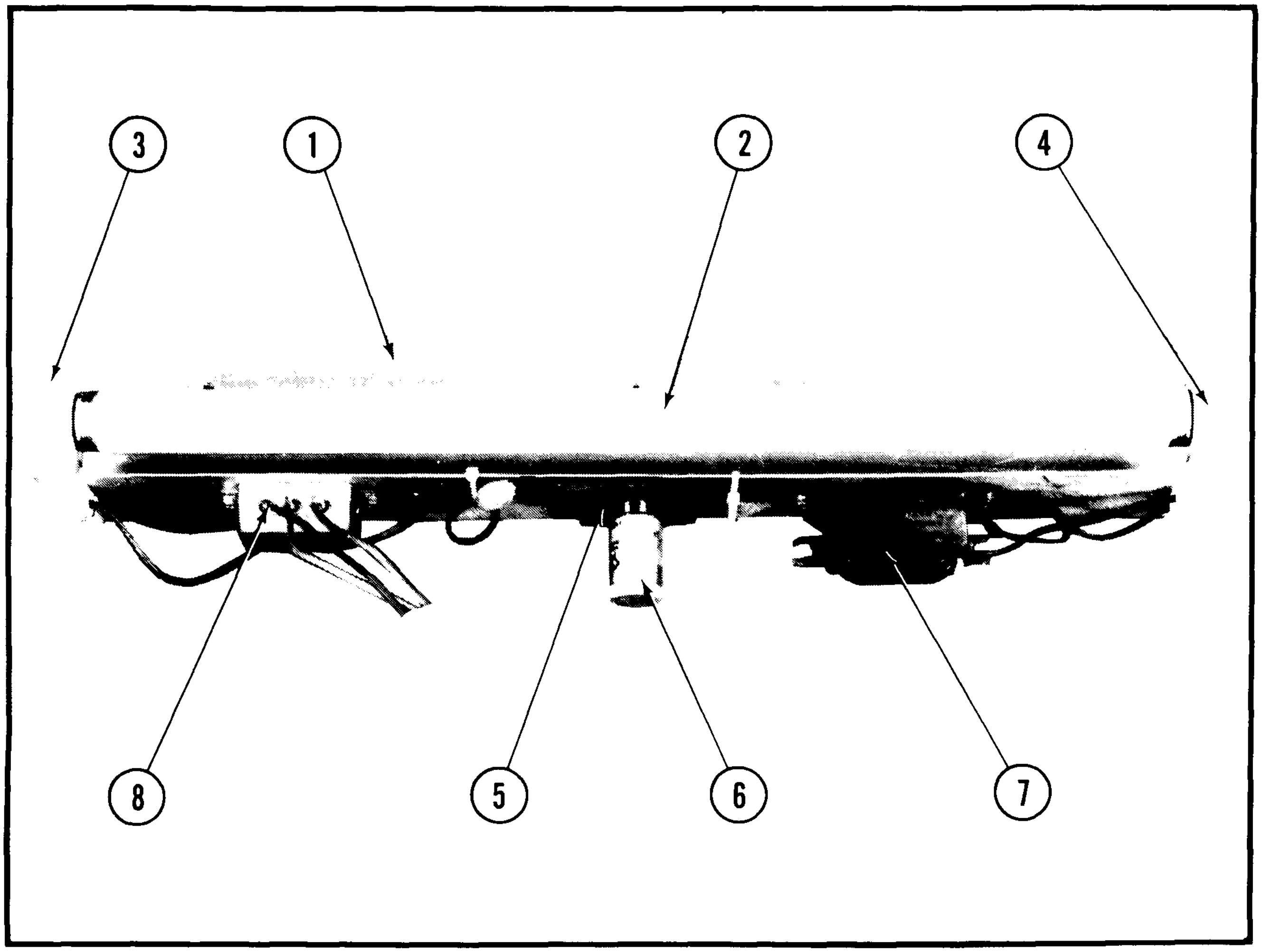


FRONT DOOR ASSEMBLY — U.S.A. 25¢ — PARTS LIST

ORDER BY PART NUMBER ***ONLY***

ITEM	PART NO.	DESCRIPTION
1	0090-00002-04BK	DOUBLE ENTRY COIN DOOR FRAME
2	0017-00101-0121	#6-32 x 5/16 PHIL. TRS. HD. SCR. (3 REQ'D.)
3	A090-00073-02BK	DOUBLE ENTRY COIN DOOR W/DRESS PLATE
4	0017-00101-0123	#8 x 1/4 UNSLOT. HEX HD. SCREW (12 REQ'D.)
5	0017-00007-0019	KEY HOOK
6	0017-00103-0059	PUSH NUT (4 REQ'D.)
7	0090-00912-0000	COIN ENTRY PLATE — 25¢ (2 REQ'D.)
8	A097-00005-0000	DOOR LOCK & KEY W/SCREW & NUT (OR)
8	A097-00006-0000	DOOR LOCK & KEY W/SCREW, & NUT
9	0090-00128-00XF	DOOR TILT SWITCH BRKT.
10	0017-00005-0225	DOOR CAM
11	A090-00095-0000	DOOR TILT SWITCH
12	0090-00126-03XF	SWITCH BACK-UP PLATE
13	0017-00101-0525	#5-40 x 9/16" PHIL. HD. M.S. (2 REQ'D.)
	A090-00096-0000	DOOR TILT SWITCH & BRKT. ASSY. (ITEMS 9 & 11 THRU 13)
14	0090-00903-9500	25¢ WINDOW (2 REQ'D.)
15	0090-00143-00XF	COIN PLEX RETAINER
16	0017-00003-0219	12 VOLT LAMP — G.E. #194 (2 REQ'D.)
17	0017-00031-0048	WEDGE SOCKET W/BRKT. (2 REQ'D.)
18	A090-00100-0000	BRKT. ASSY.
19	0017-00103-0084	#6-32 HEX NUT W/SEMS (4 REQ'D.)
20	A090-00089-0000	COIN METER W/DIODE
21	0017-00101-0124	#6 x 1/4 UNSLOT. HEX HD. SCR. (4 REQ'D.)
25	0090-00911-0000	INSULATOR (2 REQ'D.)
26	A090-00112-0000	COIN CHUTE & TOP ASSY. (2 REQ'D.)
27	0010-00134-0000	SPRING
28	0010-00181-0000	SPRING
29	0017-00007-0083	1/8 x 1-5/8 ROLL PIN
30	0090-00129-00XF	PIVOT POST
31	0090-00167-00XF	PIVOT LEVER
32	0090-00182-00XF	REJECT LEVER
33	0017-00100-0018	E-RING
	A090-00088-0000	REJECT LEVER ASSY. (2 REQ'D.) (ITEMS 30 THRU 33)
34	A090-00105-0000	COIN ACCEPTOR FRAME ASSY. (2 REQ'D.)
35	0017-00005-0003	COIN ACCEPTOR W/STRING CUTTER (2 REQ'D.) (OR)
35	0017-00005-0211	COIN ACCEPTOR W/ANTI STRING DEVICE (2 REQ'D.) (OR)
35	0017-00005-0214	COIN ACCEPTOR W/STRING CUTTER (2 REQ'D.)
36	A090-00064-0000	ANTI-PENNY DEVICE
37	0017-00101-0099	#6 x 1/4 SLT. HEX HD. M.S. (2 REQ'D.)
38	0090-00162-00XF	COIN SWITCH MTG. BRKT.
39	0017-00005-0203	COIN SWITCH CHUTE
40	0017-00005-0195	COIN SWITCH
41	0010-00599-0000	COIN SWITCH WIRE
42	0017-00007-0015	PUSH-ON RING
	A090-00059-0400	COIN SWITCH & WIRE ASSY. (ITEMS 40 THRU 42)
43	0017-00101-0147	#4-40 x 3/4 PHIL. PAN. HD. M.S. (2 REQ'D.)
	A090-00077-0000	COIN GUIDE & SWITCH ASSY. (ITEMS 38 THRU 43)

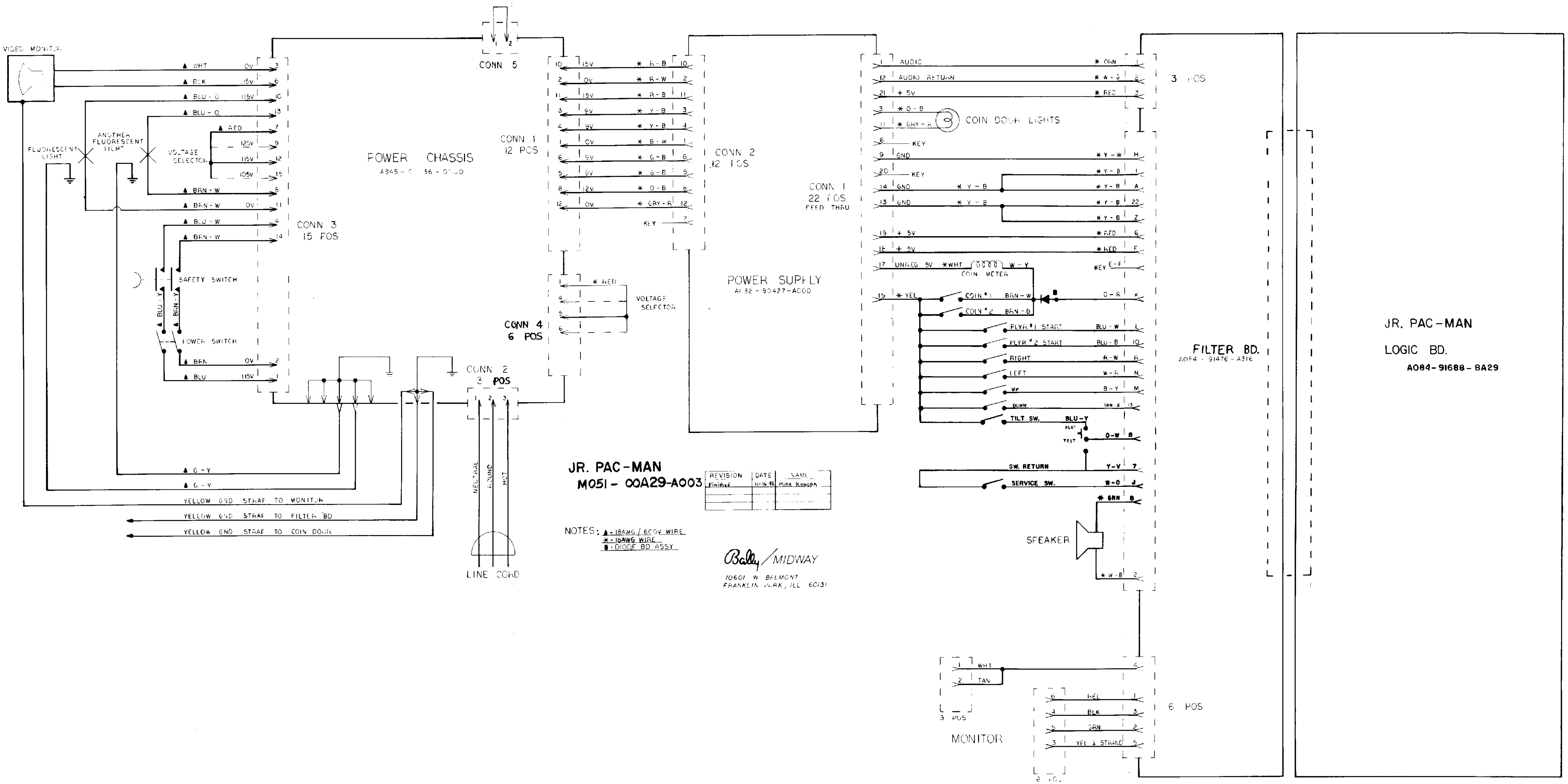
NO. 0A29 - JR. PAC-MAN - HEADER FLUORSECENT LIGHT ASSY.



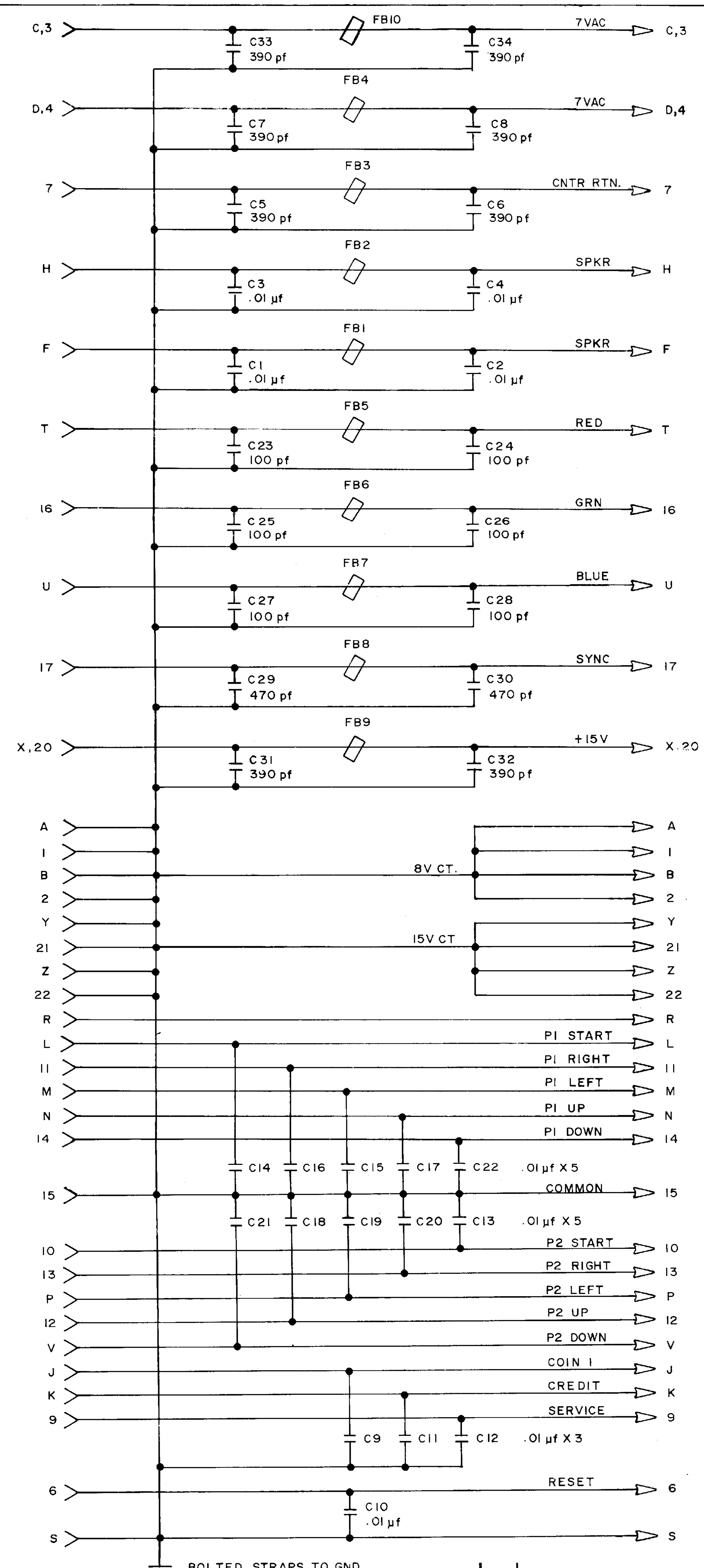
NO. 0A29 - JR. PAC-MAN - HEADER FLUORSECENT LIGHT ASSY. - PARTS LIST

ORDER BY PART NUMBER ***ONLY***

ITEM	PART NO.	DESCRIPTION
1	0353-00113-0000	FLUORESCENT BRKT.
2	0017-00003-0043	18" COOL WHITE FLUORESCENT LAMP
3	0017-00003-0445	LAMP LOCKS (2 REQ'D.)
4	0017-00031-0036	FLUORESCENT SOCKET (2 REQ'D.)
5	0017-00003-0412	FLUORESCENT STARTER HOLDER W/LEADS
	0017-00101-0573	#6-32 x 1/2 PHIL. RND. HD. M.S. (4 REQ'D.)
	0017-00104-0009	#6 EXT. WASHER (4 REQ'D.)
6	0017-00003-0019	FLUORESCENT STARTER
7	0017-00003-0026	BALLAST
	0017-00101-0598	#8-32 x 5/16 SLT. HEX HD. SCR. (4 REQ'D.)
8	A961-00042-0000	LINE FILTER ASSY.

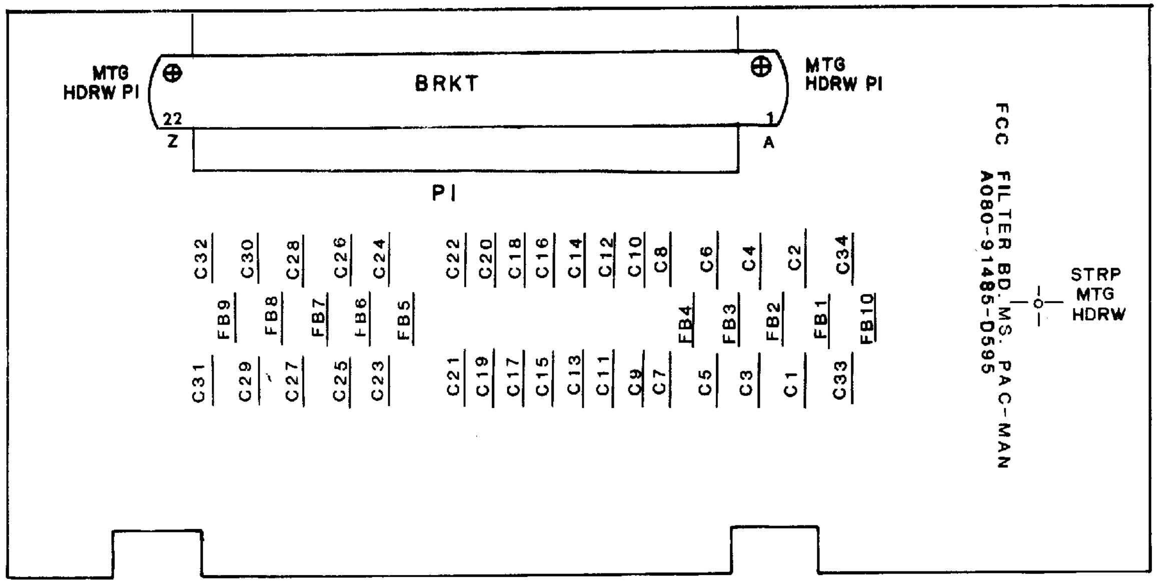


JR. PAC-MAN
M051- 00A29-A003
REVISION
DATE
NAME
NOTES: ▲ - 18AWG / 600V WIRE
✱ - 18AWG WIRE
■ - DIODE BD ASSY
Bally / MIDWAY
10601 W. BELMONT
FRANKLIN PARK, ILL 60131
VIDEO MONITOR
FLUORESCENT LIGHT
ANOTHER FLUORESCENT LIGHT
VOLTAGE SELECTOR
POWER CHASSIS
CONN 5
CONN 1
12 POS
CONN 3
15 POS
CONN 4
6 POS
CONN 2
3 POS
SAFETY SWITCH
POWER SWITCH
YELLOW GND STRAP TO MONITOR
YELLOW GND STRAP TO FILTER BD
YELLOW GND STRAP TO COIN DOOR
NEUTRAL
GROUND
HOT
LINE CORD
CONN 2
12 POS
POWER SUPPLY
A182-90427-A000
CONN 1
22 POS
FEED THRU
AUDIO
AUDIO RETURN
COIN DOOR LIGHTS
KEY
GND
UNREG 5V
COIN METER
COIN #1
COIN #2
PLYR #1 START
PLYR #2 START
RIGHT
LEFT
UP
DOWN
TILT SW.
PLAY
TEST
SW. RETURN
SERVICE SW.
SPEAKER
3 POS
FILTER BD.
A084-91476-A316
JR. PAC-MAN
LOGIC BD.
A084-91688-8A29
MONITOR
3 POS
6 POS



REVISIONS

PROJECT ENG: J. SZERSZEN		USED ON JR. PACMAN	Bally / MIDWAY MFG. CO. FRANKLIN PK ILL
DO NOT SCALE DWG	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER
DIM. TOLERANCES UNLESS SPECIFIED	DRN. TBB	MAT'L.	F.C.C. FILTER BD, MS. PACMAN SCHEMATIC DWG. A084-91485-D595
	CKD	FINISH	PART NO M051 - 00595 - D017
	DATE 12/08/83		



DESIGNATION LIST

DESIGNATION	DESCRIPTION
C1-C4	.01 µf 25V AX.CER.
C5-C8	390 pf 50V " "
C9-C22	.01 µf 25V " "
C23-C28	100 pf 50V " "
C29, C30	470 pf 50V " "
C31-C34	390 pf 50V " "
FB1 - FB10	FERRITE BEAD W/LEAD
P1	22 PIN EDGE CONN.
"	P.C. EDGE CONN KEY
STRAP MTG HDRW	8-32 X 5 SLT PAN
" " "	8-32 HEX NUT
MTG HDRW P1	6-32 X 10 PHL PAN
" " "	6 145-.250-032 SPLT WSHR
BRKT	BRACKET FOR CONN.
A080-91485-D595	FCC FILTER BD

CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION	PART NO.
100 pf 50V AX.CER.	6	C23-C28	0789-00800-1800
390 pf 50V " "	8	C5-C8, C31-C34	0316-00800-0002
470 pf 50V " "	2	C29, C30	0932-00813-0100
.01 µf 25V " "	18	C1-C4, C9-C22,	0A29-00800-0003
FERRITE BEAD W/LEAD	10	FB1-FB10	0316-00804-0002
22 PIN EDGE CONN.	1	P1	0017-00021-0418
P.C. EDGE CONN KEY	2	"	0017-00021-0396
8-32 X 5 SLT PAN	1	STRAP MTG HDRW	0017-00101-0595
8-32 HEX NUT	1	" " "	0017-00103-0008
6-32 X 10 PHL PAN	2	MTG HDRW P1	0017-00101-0763
6 145-.250-032 SPLT WSHR	2	" " "	0017-00104-0002
BRACKET	1	BRKT	0866-00118-00XF
FCC FILTER BD	1	———	A080-91485-D595

REVISIONS

PROJECT ENG.: J. SZERSZEN

USED ON: JR. PACMAN

Bally / MIDWAY MFG. CO.
FRANKLIN PK. ILL.

DO NOT SCALE DWG.

HEAT TREAT

SCALE: FULL

NO. REQ'D: 1 PER

DIM. TOLERANCES UNLESS SPECIFIED
CONCENTRICITY T.I.R. .003
FRACTIONAL ±1/64
DECIMAL ±.005
HOLE DIA +.002 .000

DRN. TBB

CKD.

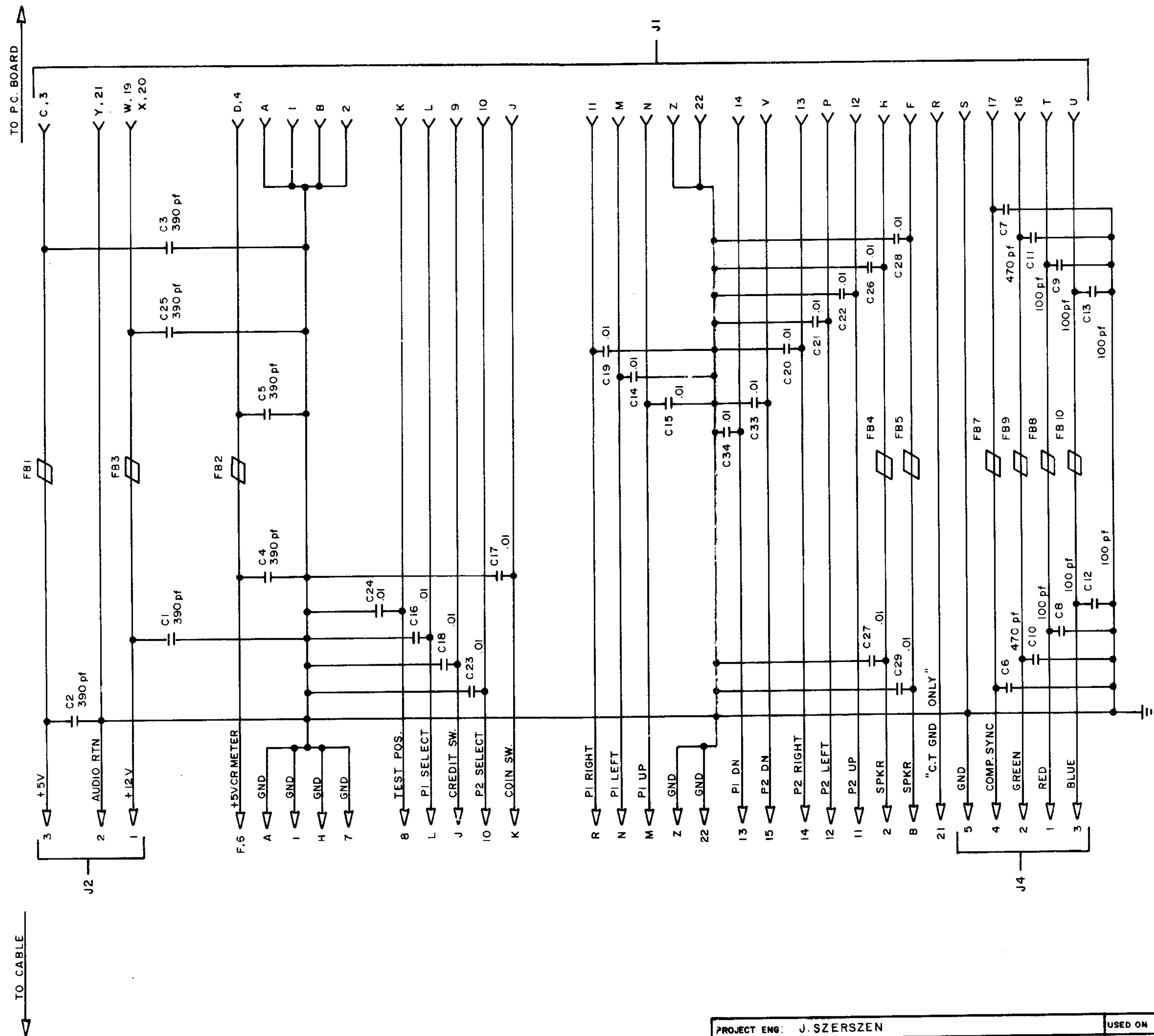
DATE 12/12/83

MAT'L.

FINISH

FCC FILTER BD, MS. PACMAN
ASSY DWG.
A084-91485-D595

PART NO.
M051- 00595 -D016



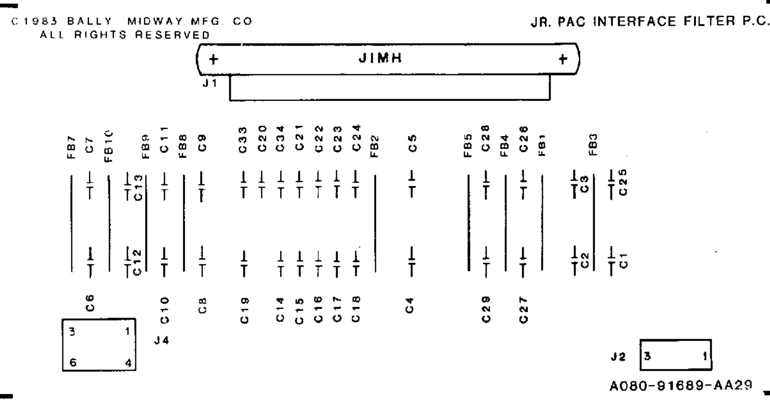
NOTE:
ALL .01 CAPS ARE MF.
ALL CAPS AX. CER. UNLESS NOTED OTHERWISE.
FB = FERRITE BEAD

PROJECT ENG: J. SZERSZEN		USED ON JR. PACMAN	Bally / MIDWAY MFG. CO. FRANKLIN PK.
DO NOT SCALE DWG	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER
DIM. TOLERANCES UNLESS SPECIFIED	DRN. TBB	MAT'L	SCHEMATIC DWG JR. PACMAN INTERFACE FILTER PC A084-91689-AA29
	CKD.	FINISH	PART NO M051-00A29 -A012
	DATE 11/02/83		

REVISIONS

DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION
C1-C5	390 PF 50V AX CER
C6,C7	470 PF 50V AX CER
C8-C13	100 PF 50V AX CER
C14-C24	.01 UF 50V AX CER
C25	390 PF 50V AX CER
C26-C29	.01 UF 50V AX CER
C33,C34	.01 UF 50V AX CER
FB1-FB5,FB7-FB10	FERRITE BEAD
J1	P.C. EDGE CONN.
J2	3 PIN HEADER
J4	6 PIN HEADER
J1 MH	(2) P.C. EDGE CONN. KEY (2) 6-32x10 SLOT PAN SCREW (2) WSH. 6 145-.250-.032 (1) BRKT-CONN FIN (1) INSULATED GND STRAP (1) 8-32x5 SLOT PAN SCREW (1) 8-32 NUT HEX
A080-91689-AA29	INTERFACE FILTER P.C. JR PAC-MAN

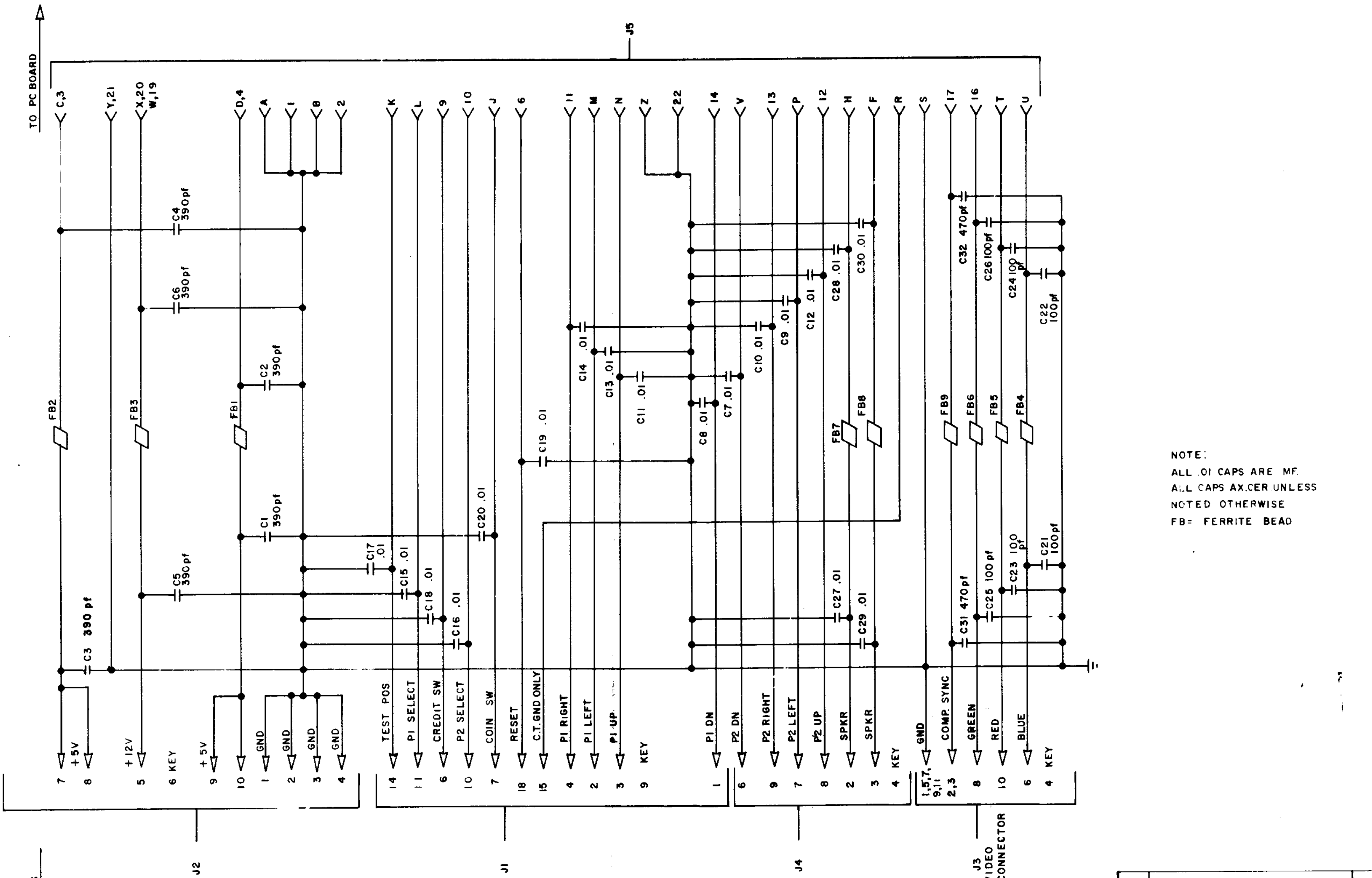


CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
100 PF 50V AX CER	6	C8-C13	0789-00800-1800
390 PF 50V AX CER	6	C1-C5,C25	0316-00800-0002
470 PF 50V AX CER	2	C6,C7	0550-00800-0200
.01 UF UF AX CER	17	C14-C24,C26-C29,C33,C34	0A29-00800-0003
FERRITE BEAD	9	FB1-FB5,FB7-FB10	0316-00804-0002
P.C. EDGE CONN	1	J1	0017-00021-0418
3 PIN HEADER	1	J2	0017-00021-0443
6 PIN HEADER	1	J4	0017-00021-0424
P.C. EDGE CONN. KEY	2	J1 MH	0017-00021-0396
6-32x10 SLOT PAN SCREW	2	J1 MH	0017-00101-0763
WSH. 6 145-.250-.032	2	J1 MH	0017-00104-0002
BRKT-CONN FIN	1		0866-00118-00XF
INSULATED GND STRAP	1		3000-17143-0700
8-32x5 SLOT PAN SCREW	1		0017-00101-0595
8-32 NUT HEX	1		0017-00103-0008
INTERFACE FILTER P.C. JR. PAC-MAN			A080-91689-AA29

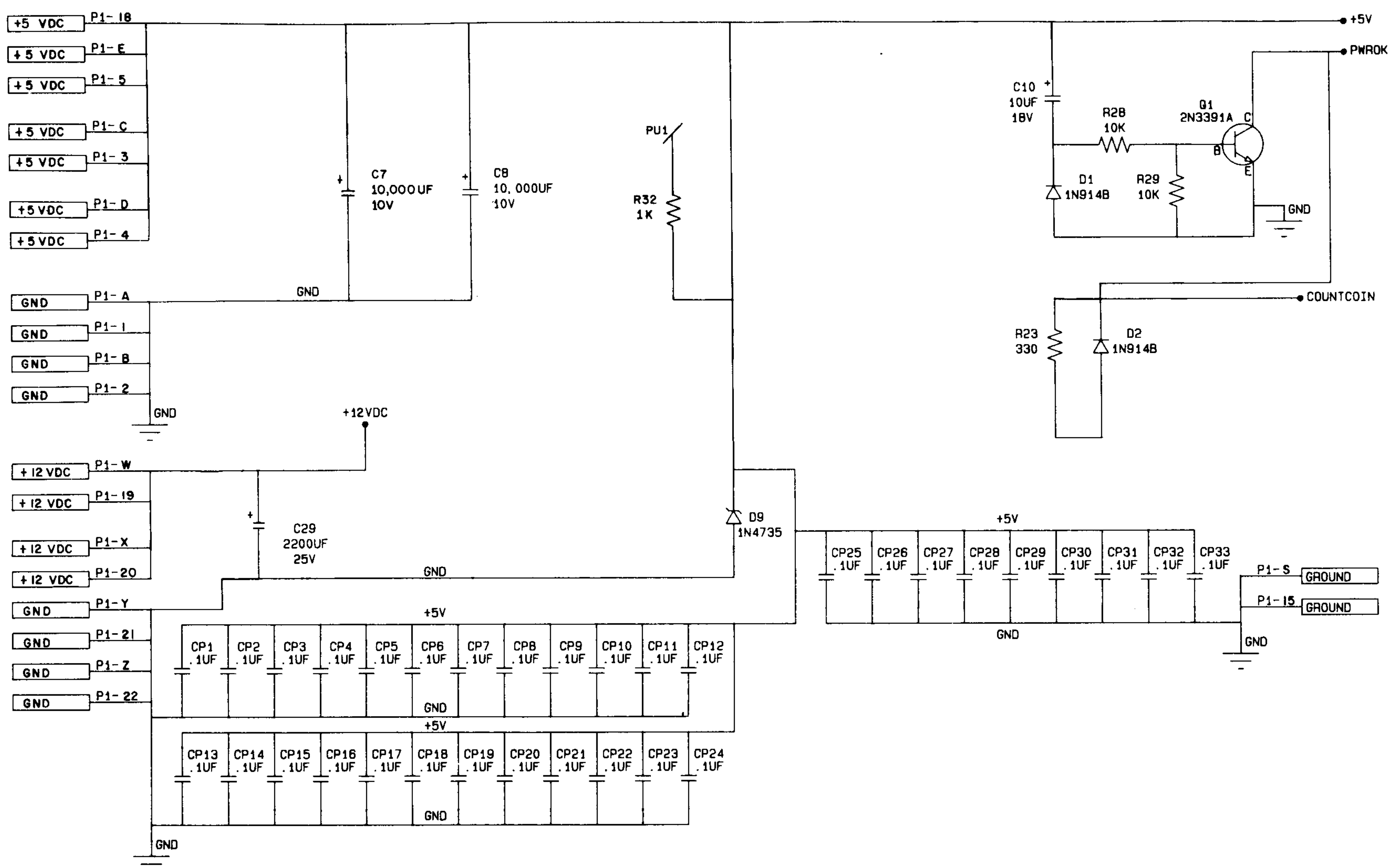
REVISIONS

PROJECT ENG: J. SZERSZEN		USED ON JR PACMAN	Bally / MIDWAY MFG. CO. FRANKLIN PK ILL
DO NOT SCALE DWG	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER
DIM. TOLERANCE UNLESS SPECIFIED	DRN. TBB	MAT'L.	JR PAC INTERFACE FILTER P.C. ASSEMBLY DWG A080-91689-AA29
	CKD.	FINISH	PART NO. M051 - 00A29 - A011
	DATE 12/12/83		



NOTE:
ALL .01 CAPS ARE MF.
ALL CAPS AX.CER UNLESS
NOTED OTHERWISE
FB= FERRITE BEAD

REVISIONS			
PROJECT ENG: J. SZERSZEN		USED ON JR. PACMAN	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER
DIM TOLERANCES UNLESS SPECIFIED	DRN. BAK	MAT'L.	JR. PACMAN (SP) INTERFACE FILTER SCHEMATIC DWG.
	CKD.	FINISH	A080 - 91698 - CA29
	DATE 12/14/83		PART NO M051 - 00A29 - CC18



DIM. TOLERANCES		
UNLESS OTHERWISE SPEC.		
CONCENTRICITY T.I.R.	.002	
FRACTIONAL	± 1/64	
DECIMAL	± .005	
HOLE DIA.	+ .002 – .000	
ANGLE	± 1/2°	
DO NOT SCALE DWG.		

FIRST USED ON: JR. PACMAN
DRN: TBB — DATE: 12/08/83 — SCALE: FULL
MECH CHK — MAT'L
ELEC CHK — FINISH

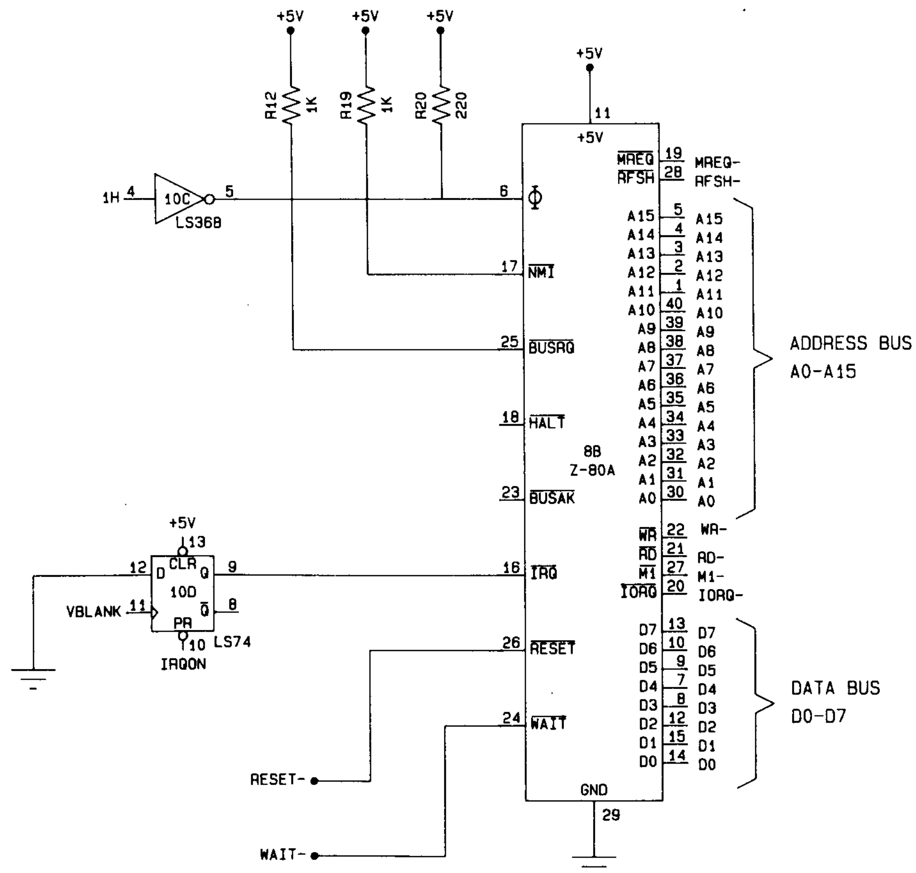
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

POWER/GROUND

REVISIONS

PART NO M·0·5·1-0·0·A·2·9-C·0·1·0



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

SHEET 2 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC.
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA + .002 − .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON JR. PACMAN
DRN TBB | DATE 12/08/83 | SCALE FULL
MECH CHK | MAT'L
ELEC CHK | FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

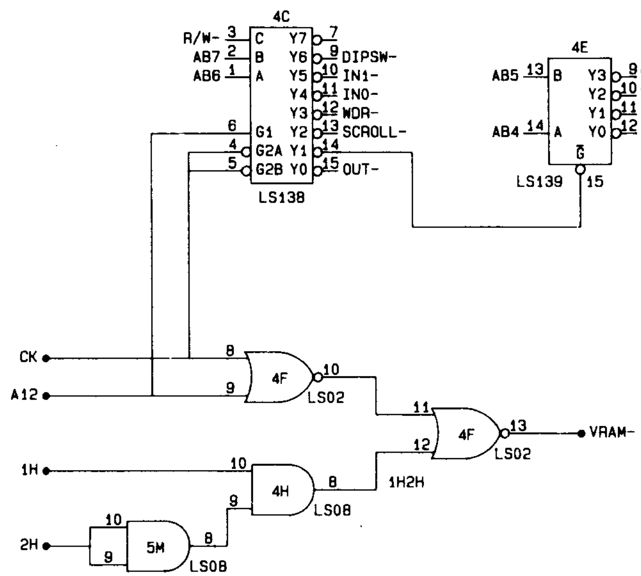
JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

CPU

REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-C-0-1-0

BRUNING 40-107



SHEET 3 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC.
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA. +.002 — .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON JR. PACMAN
DRN TBB
DATE 12/08/83
SCALE FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

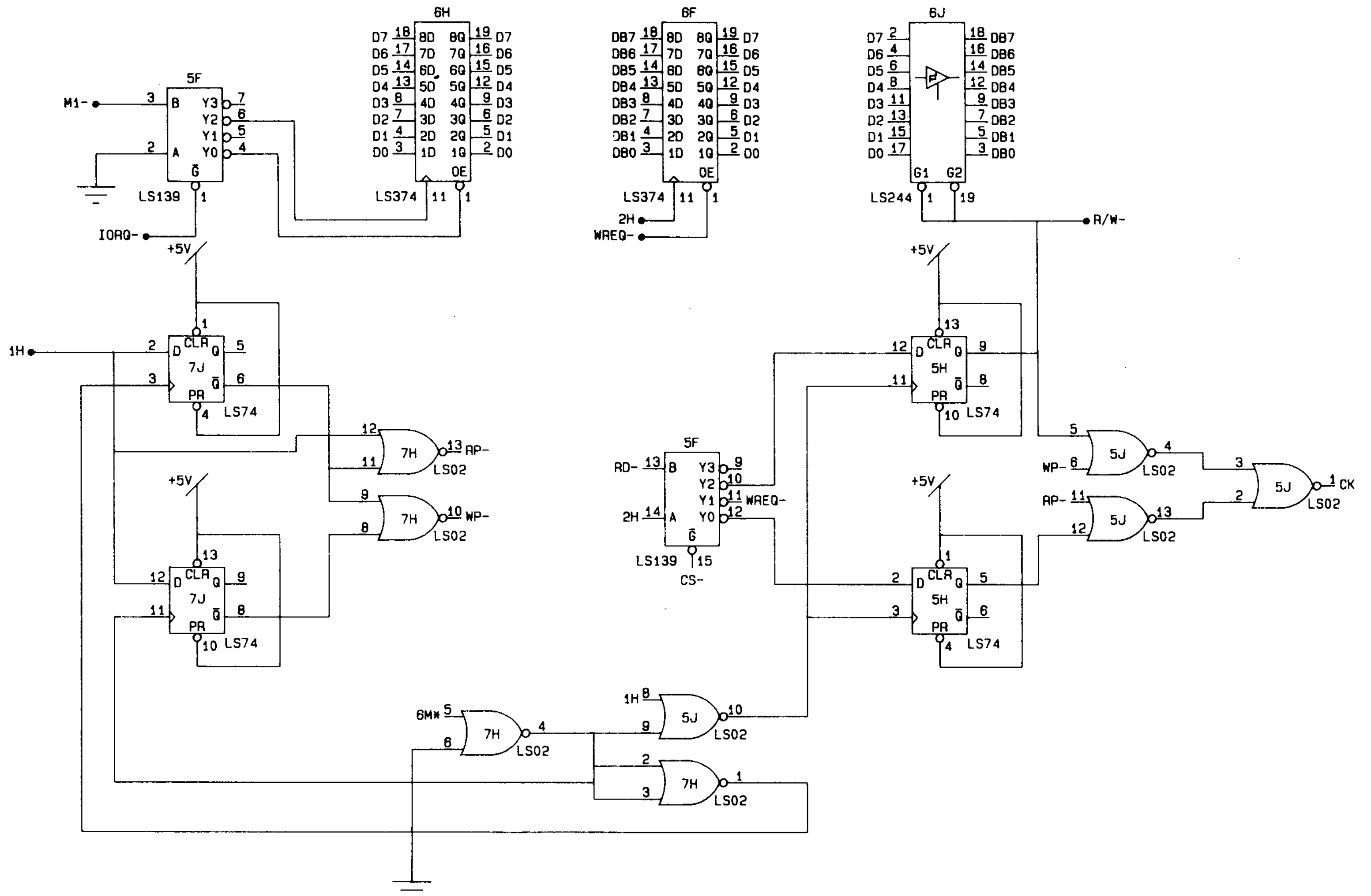
JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

ADDRESS DECODE

REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-C-0-1-0

BRUNING 40-107



THIS DWG. IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC.	
CONCENTRICITY T.I.R.	.002
FRACTIONAL	± 1/64
DECIMAL	± .005
HOLE DIA.	+.002 — .000
ANGLE	± 1/2°
DO NOT SCALE DWG.	

FIRST USED ON: JR. PACMAN
DRN: TBB — DATE: 12/08/83 — SCALE: FULL
MECH CHK — MAT'L
ELEC CHK — FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

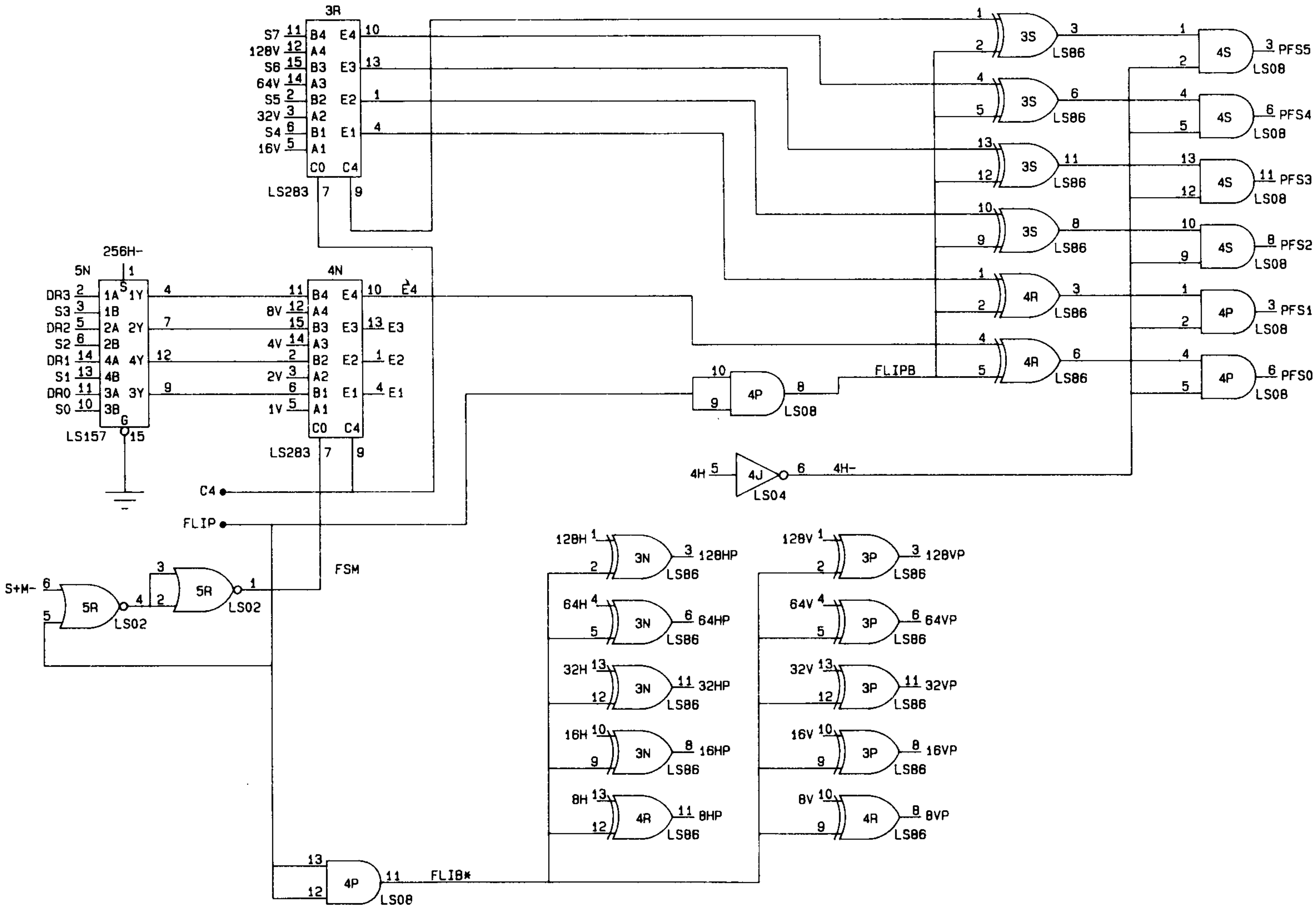
SHEET 4 OF 22

SYNC BUS CONTROLLER

REVISIONS

PART NO
M·0·5·1-0·0·A·2·9-C·0·1·0

BRUNING 40-107

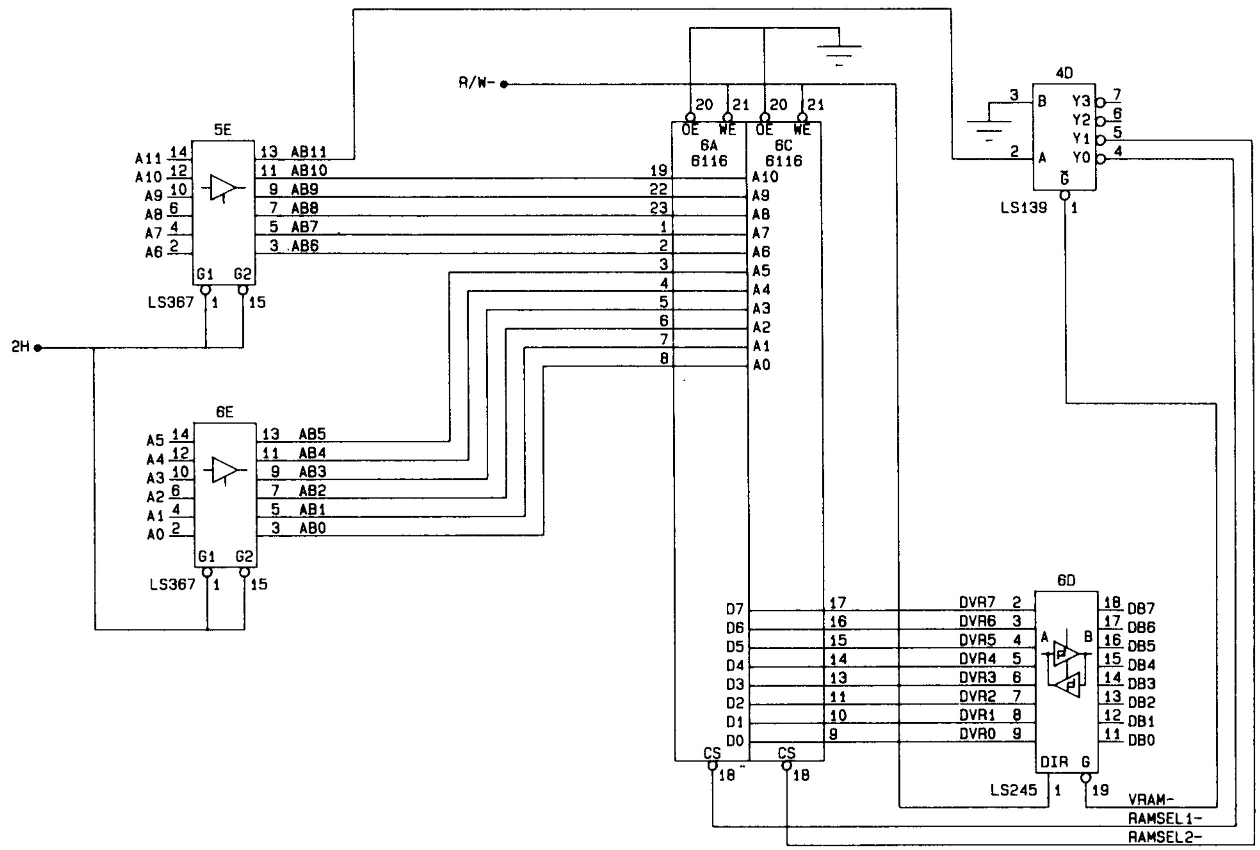


THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

SHEET 5 OF 22

DIM. TOLERANCES	FIRST USED ON JR. PACMAN			Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SCROLLING / VIDEO
UNLESS OTHERWISE SPEC	DRN TBB	DATE 12/08/83	SCALE FULL		REVISIONS
CONCENTRICITY T.I.R. .002	MECH CHK	MAT'L		JR. PACMAN (CONVERSION)	PART NO
FRACTIONAL ± 1/64				LOGIC P.C.	M-0-5-1-0-0-A-2-9-C-0-1-0
DECIMAL ± .005	ELEC CHK	FINISH		A080-91688-CA29	
HOLE DIA + .002 − .000					
ANGLE ± 1/2°					
DO NOT SCALE DWG.					

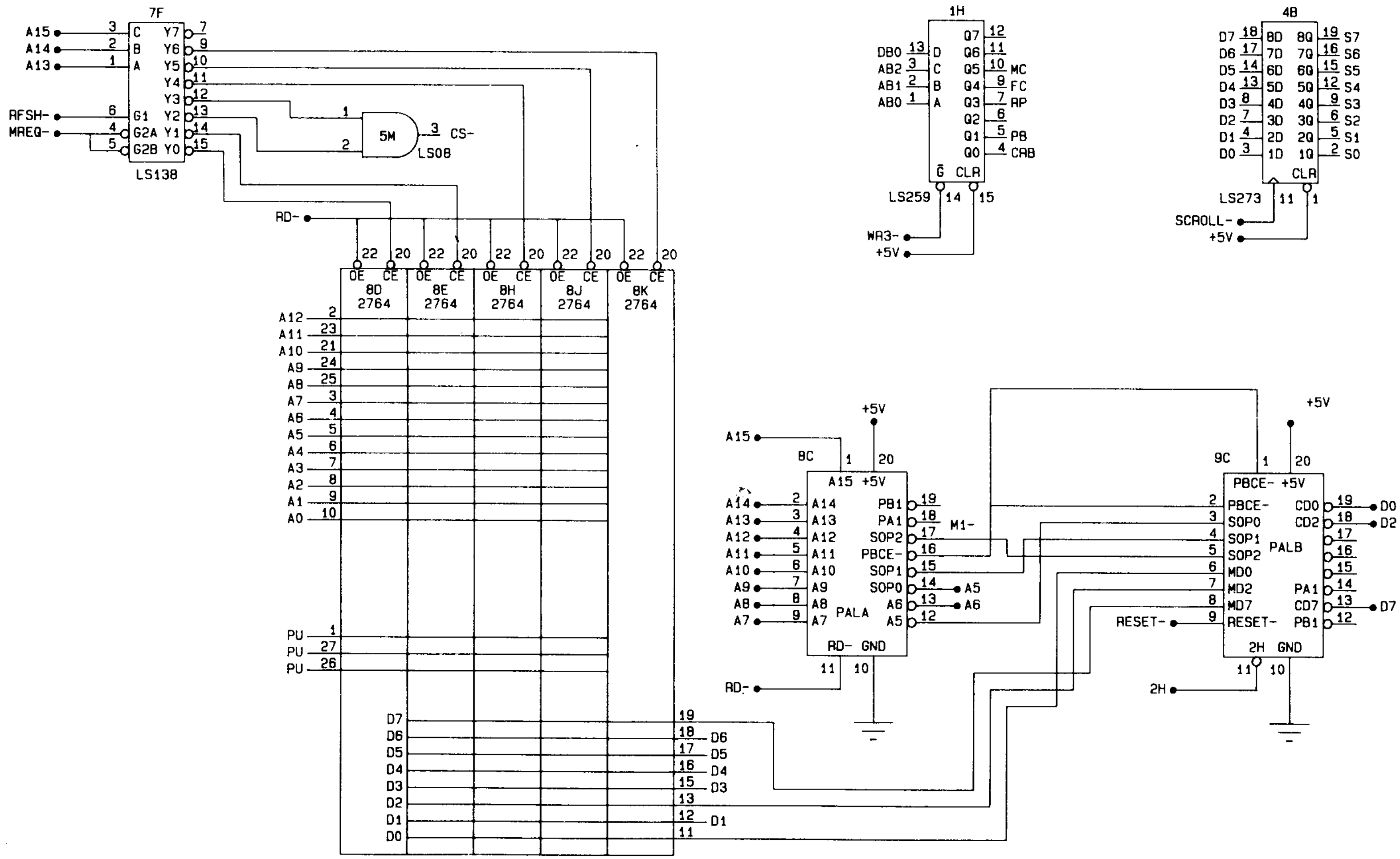
BRUNING 40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. + .002 – .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN; DRN TBB; DATE 12/08/83; SCALE FULL; MECH CHK; MAT'L; ELEC CHK; FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	SHEET 6 OF 22; RAM; REVISIONS; PART NO M·0·5·1-0·0·A·2·9-C·0·1·0

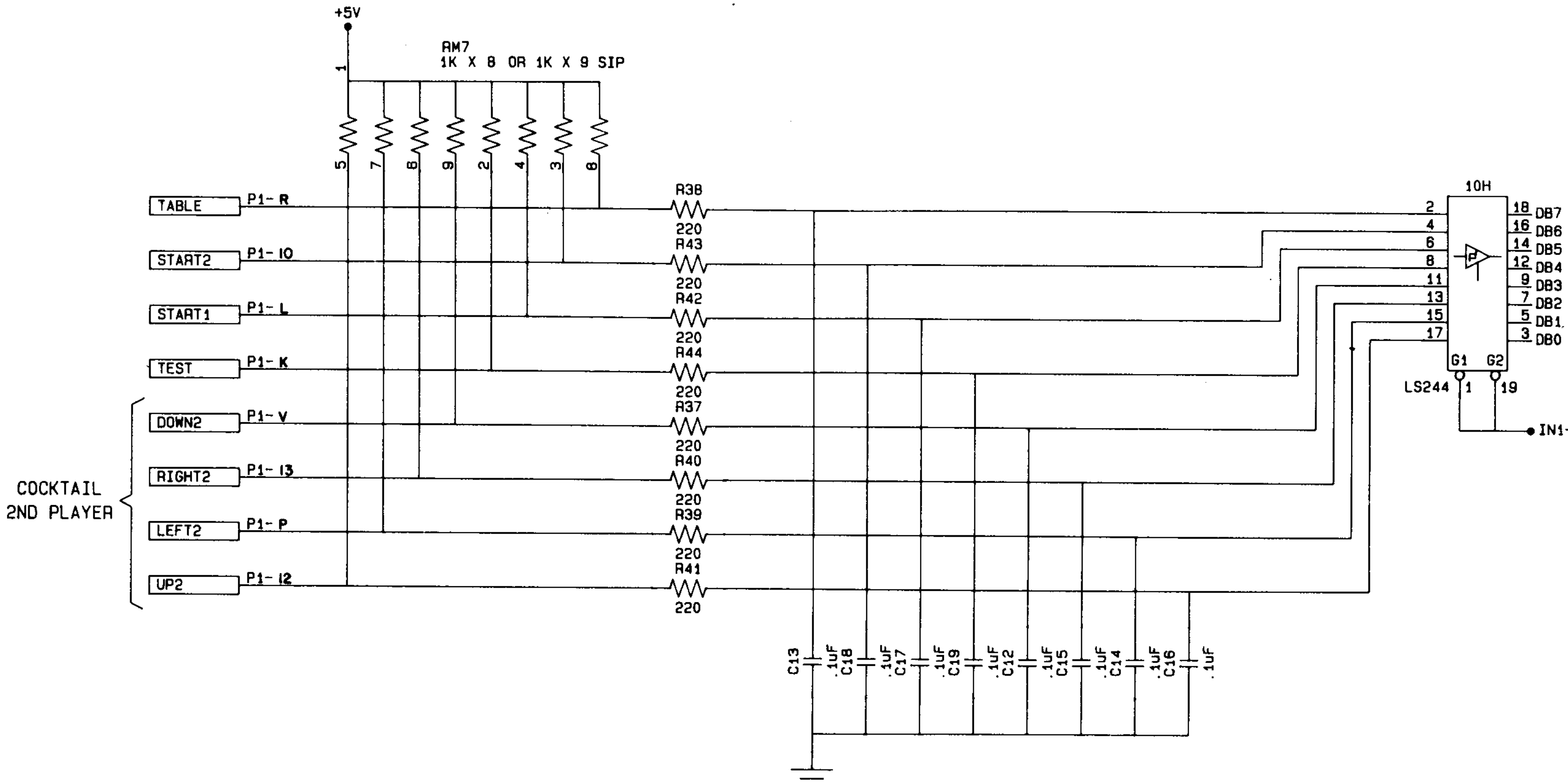
BRUNING· 40·107



THIS DWG. IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. + .002 – .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON: JR. PACMAN; DRN: TBB; DATE: 12/08/83; SCALE: FULL; MECH CHK; MAT'L; ELEC CHK; FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 — JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	SHEET 7 OF 22 — ROM — REVISIONS — PART NO M·0·5·1-0·0·A·2·9-C·0·1·0

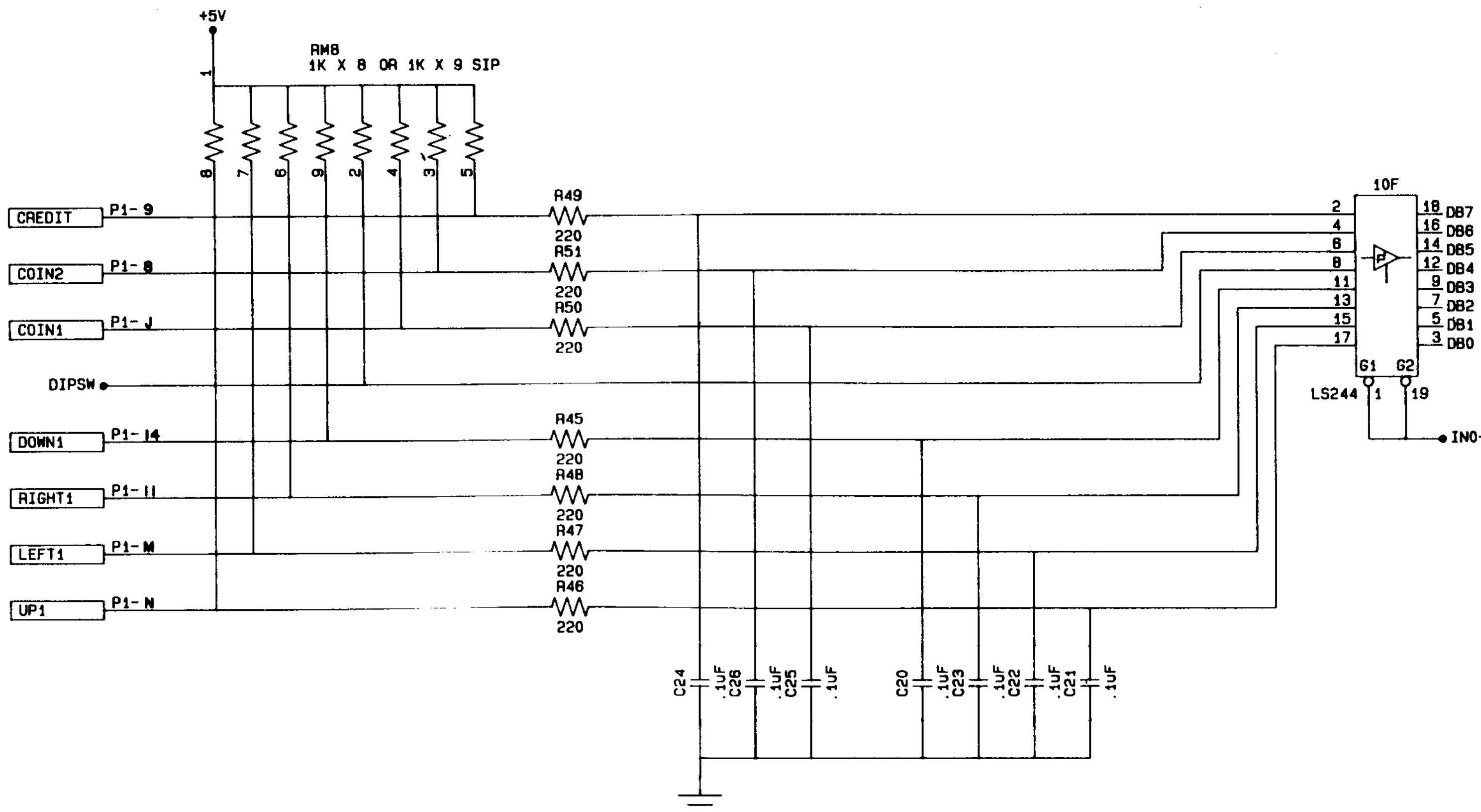
BRUNING· 40·107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. + .002 — .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SHEET 8 OF 22
	DRN TBB · DATE 12/08/83 · SCALE FULL	JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	DIGITAL IN1
	MECH CHK · MAT'L		REVISIONS
	ELEC CHK · FINISH		PART NO M·0·5·1-0·0·A·2·9-C·0·1·0

BRUNING· 40·107



SHEET 9 OF 22

DIM. TOLERANCES		
UNLESS OTHERWISE SPEC.		
CONCENTRICITY T.I.R.	.002	
FRACTIONAL	± 1/64	
DECIMAL	± .005	
HOLE DIA.	+ .002 – .000	
ANGLE	± 1/2°	
DO NOT SCALE DWG.		

FIRST USED ON: JR. PACMAN

DRN: TBB | DATE: 12/08/83 | SCALE: FULL

MECH CHK | MAT'L

ELEC CHK | FINISH

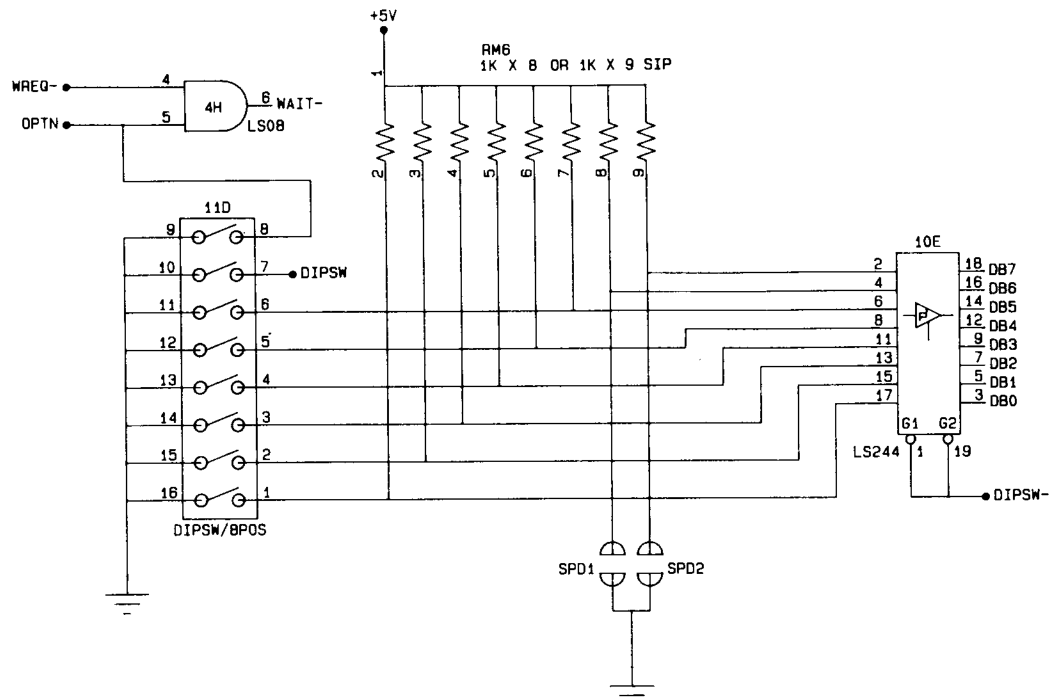
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

DIGITAL IN2

REVISIONS

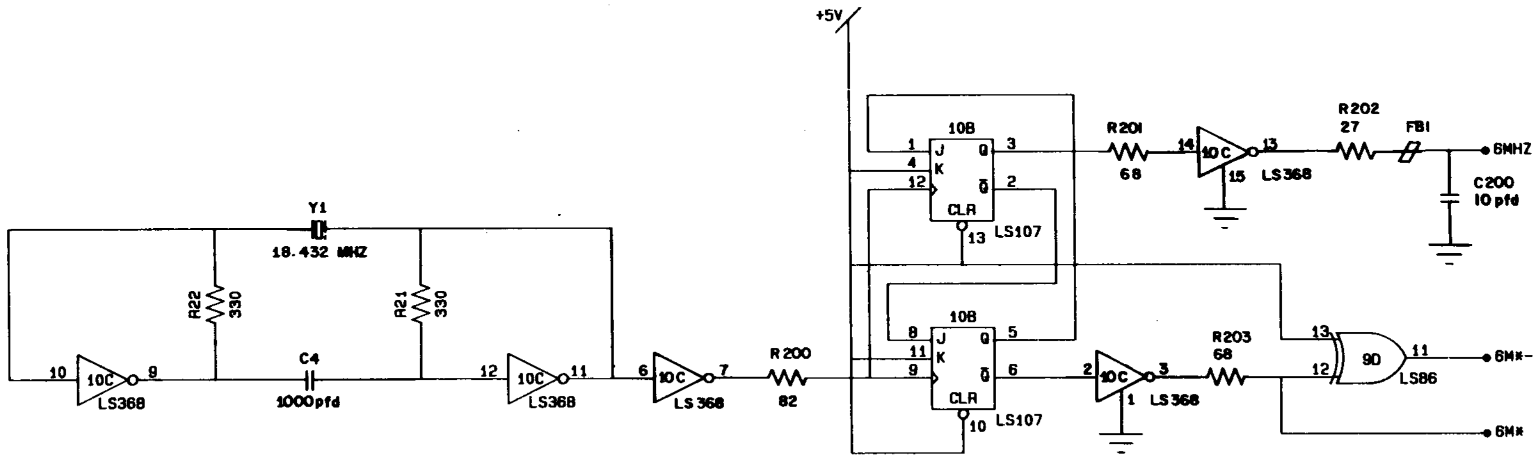
PART NO
M·0·5·1-0·0·A·2·9-C·0·1·0



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. + .002 — .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN		Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SHEET 10 OF 22
	DRN TBB	DATE 12/08/83 SCALE FULL		DIPSWITCH
	MECH CHK	MAT'L	JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	REVISIONS
	ELEC CHK	FINISH		PART NO M-0-5-1-0-0-A-2-9-C-0-1-0

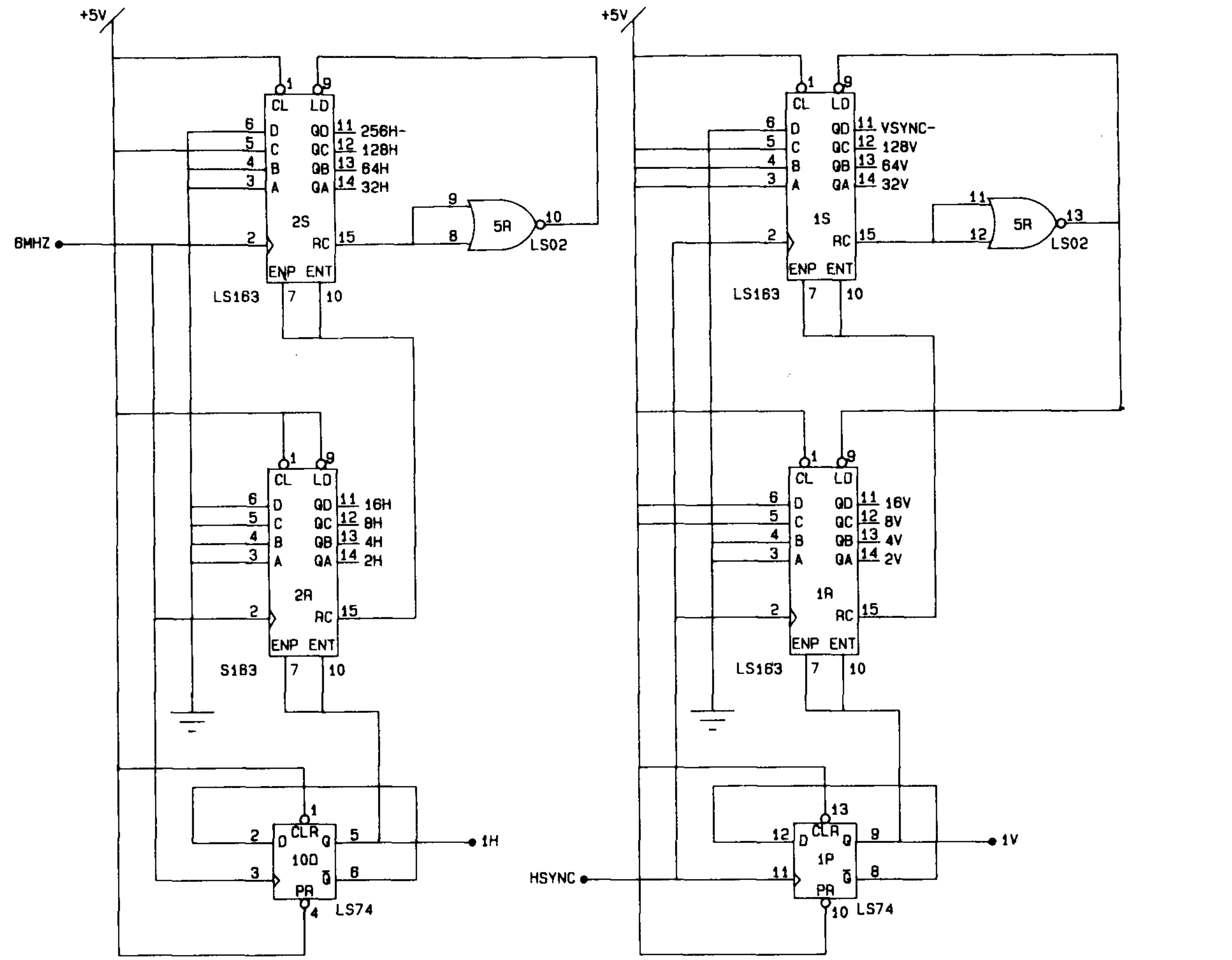
BRUNING 40-107



THIS DWG. IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO

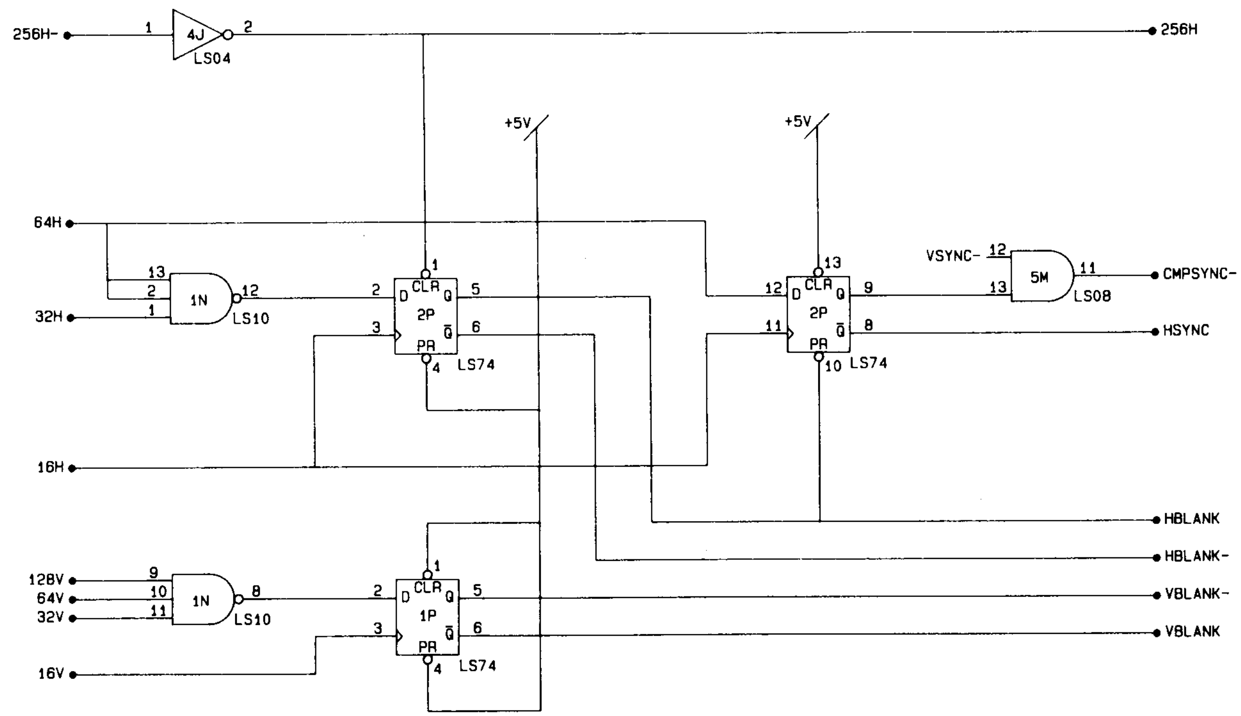
DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. +.002 –.000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN; DRN TBB; DATE 12/08/83; SCALE FULL; MECH CHK; MAT'L; ELEC CHK; FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131; JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	SHEET 11 OF 22; CLOCK GENERATOR; REVISIONS; PART NO. M·0·5·1-0·0·A·2·9-C·0·1·0

BRUNING· 40-107



DIM. TOLERANCES	FIRST USED ON JR. PACMAN			Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SYNC GENERATOR
UNLESS OTHERWISE SPEC.	DRN TBB	DATE 12/08/83	SCALE FULL	JR. PACMAN (CONVERSION)	REVISIONS
CONCENTRICITY T.I.R. .002	MECH CHK	MAT'L		LOGIC P.C.	PART NO
FRACTIONAL ± 1/64	ELEC CHK	FINISH		A080-91688-CA29	M·0·5·1-0·0·A·2·9-C·0·1·0
DECIMAL ± .005					
HOLE DIA + .002 – .000					
ANGLE ± 1/2°					
DO NOT SCALE DWG.					

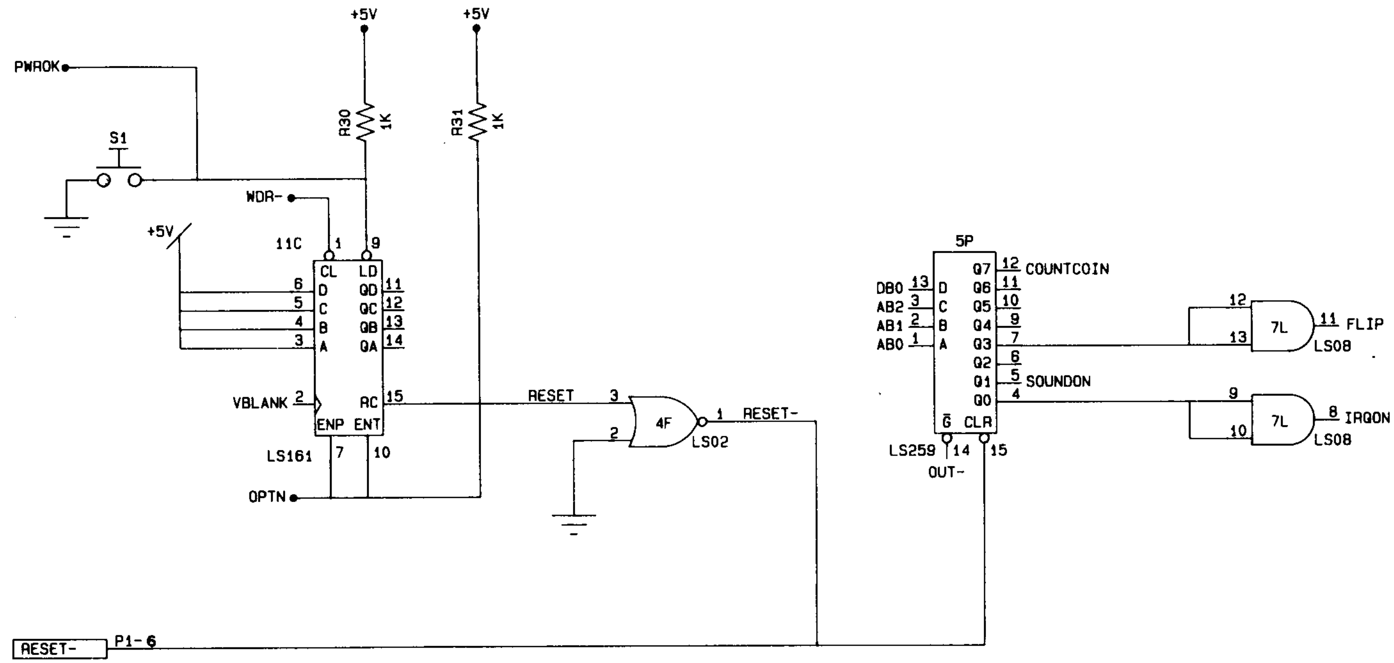
BRUNING· 40·107



SHEET 13 OF 22

DIM. TOLERANCES	FIRST USED ON: JR. PACMAN	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	BLANK GENERATOR
UNLESS OTHERWISE SPEC.	DRN: TBB; DATE: 12/08/83; SCALE: FULL		REVISIONS
CONCENTRICITY T.I.R. . .002	MECH CHK	JR. PACMAN (CONVERSION)	PART NO
FRACTIONAL ...... ± 1/64	MAT'L	LOGIC P.C.	M·0·5·1-0·0·A·2·9-C·0·1·0
DECIMAL .... ± .005	ELEC CHK	A080-91688-CA29	
HOLE DIA. ..... + .002—.000	FINISH		
ANGLE .... ± 1/2°			
DO NOT SCALE DWG.			

BRUNING· 40·107



SHEET 14 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC.
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA. + .002 – .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON JR. PACMAN		
DRN TBB	DATE 12/08/83	SCALE FULL
MECH CHK	MAT'L	
ELEC CHK	FINISH	

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

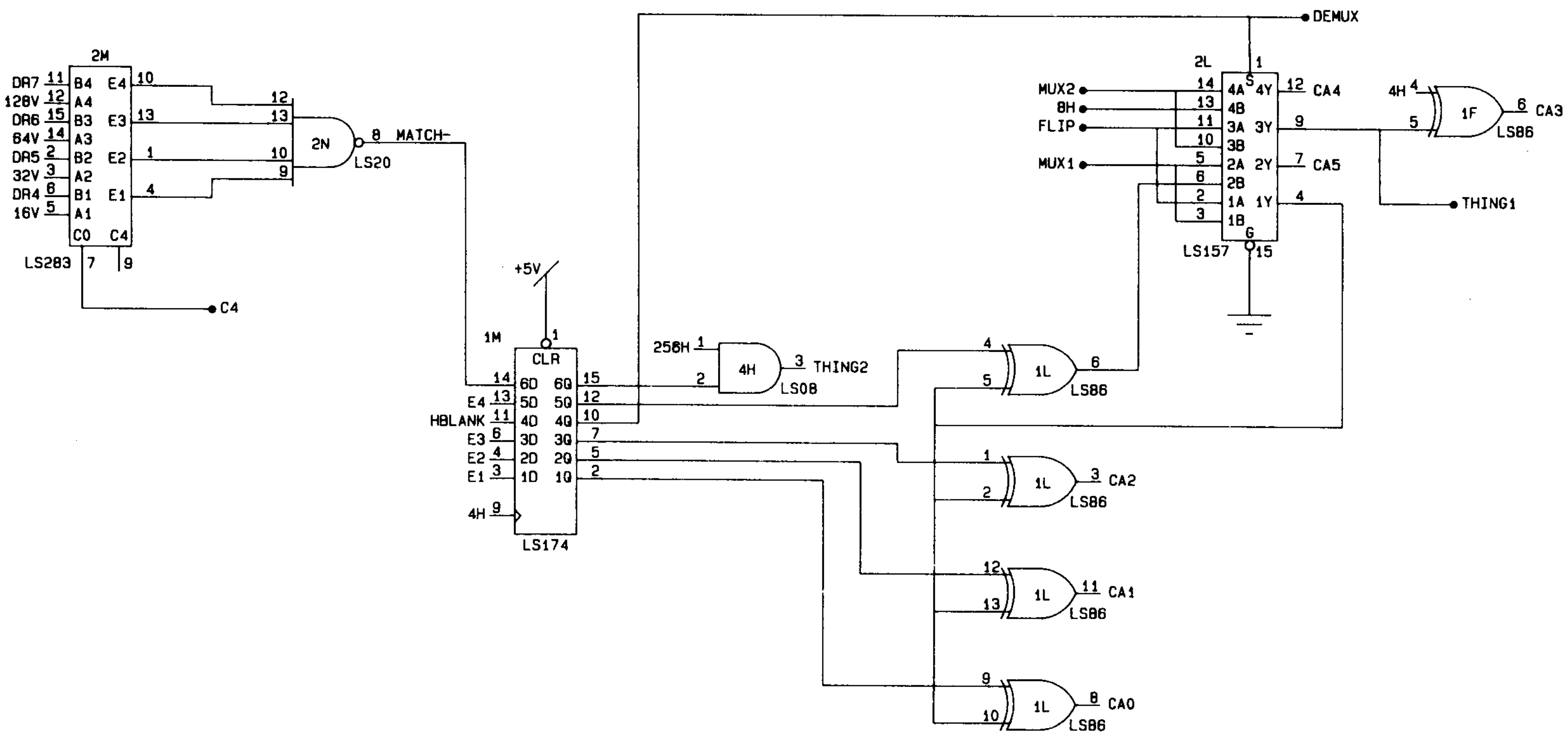
JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

RESET IRQ

REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-C-0-1-0

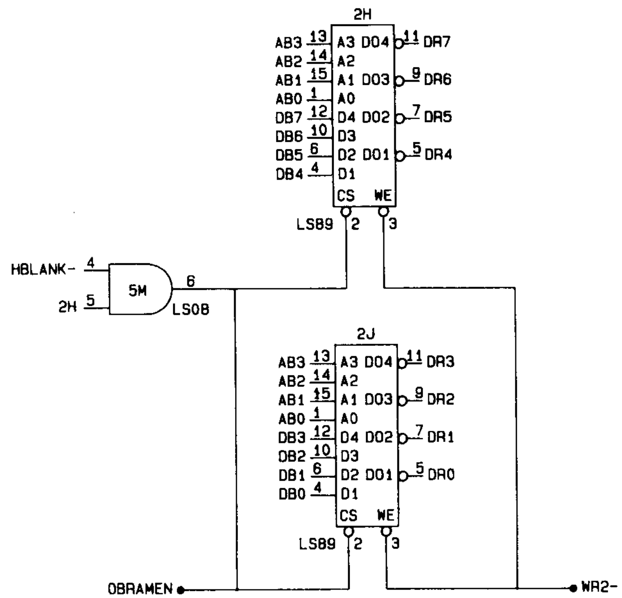
BRUNING 40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. +.002 –.000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN; DRN TBB; DATE 12/08/83; SCALE FULL; MECH CHK; MAT'L; ELEC CHK; FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 — JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	SHEET 15 OF 22 — VERT. ADDRESS TIMING — REVISIONS — PART NO M-0-5-1-0-0-A-2-9-C-0-1-0

BRUNING 40-107

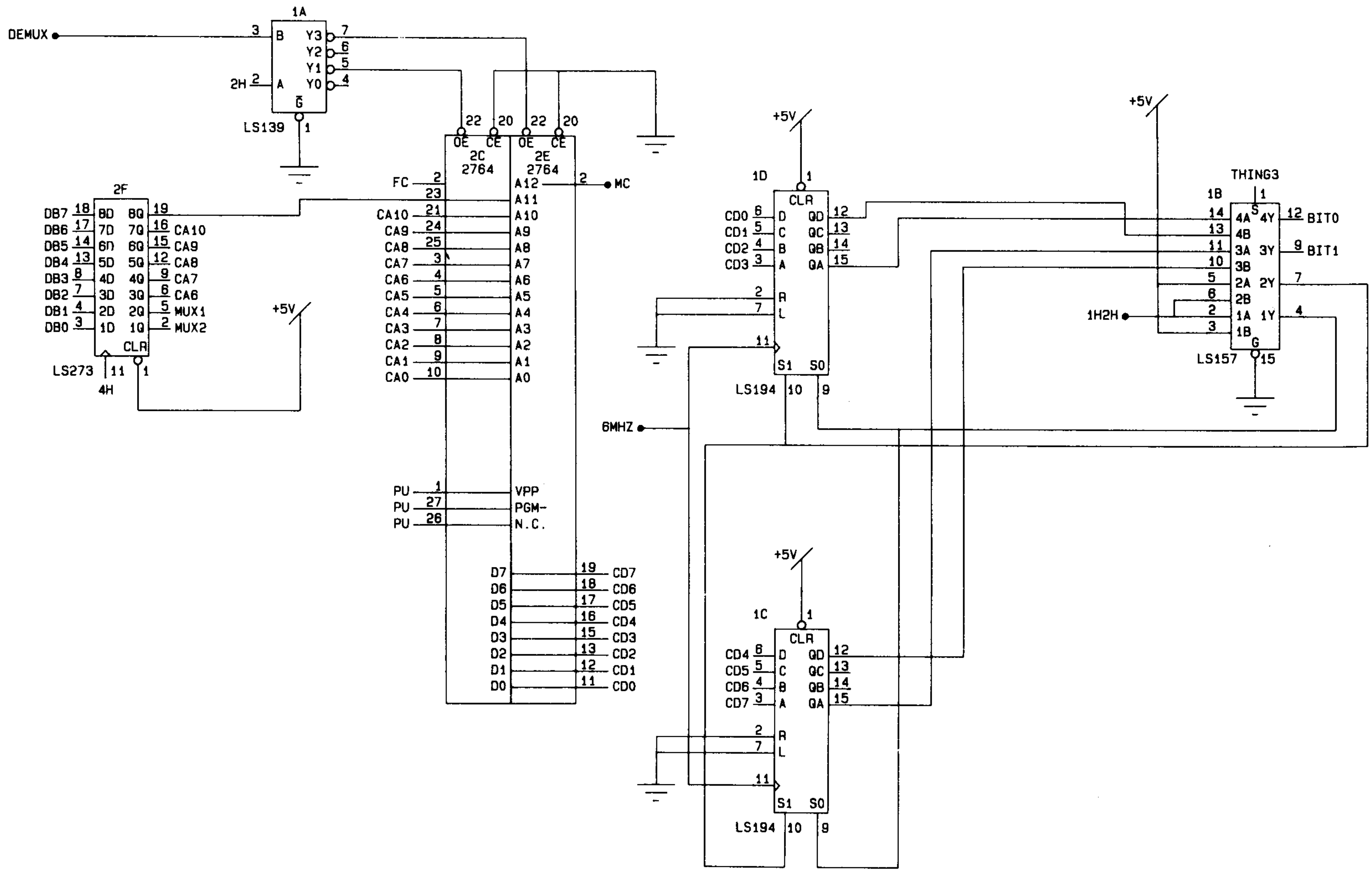


THIS DWG. IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

SHEET 16 OF 22

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ...... ± 1/64 DECIMAL .... ± .005 HOLE DIA. ...... + .002 – .000 ANGLE .... ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN DRN TBB · DATE 12/08/83 · SCALE FULL MECH CHK · MAT'L ELEC CHK · FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	OBJECT RAM **REVISIONS** PART NO M·0·5·1-0·0·A·2·9-C·0·1·0

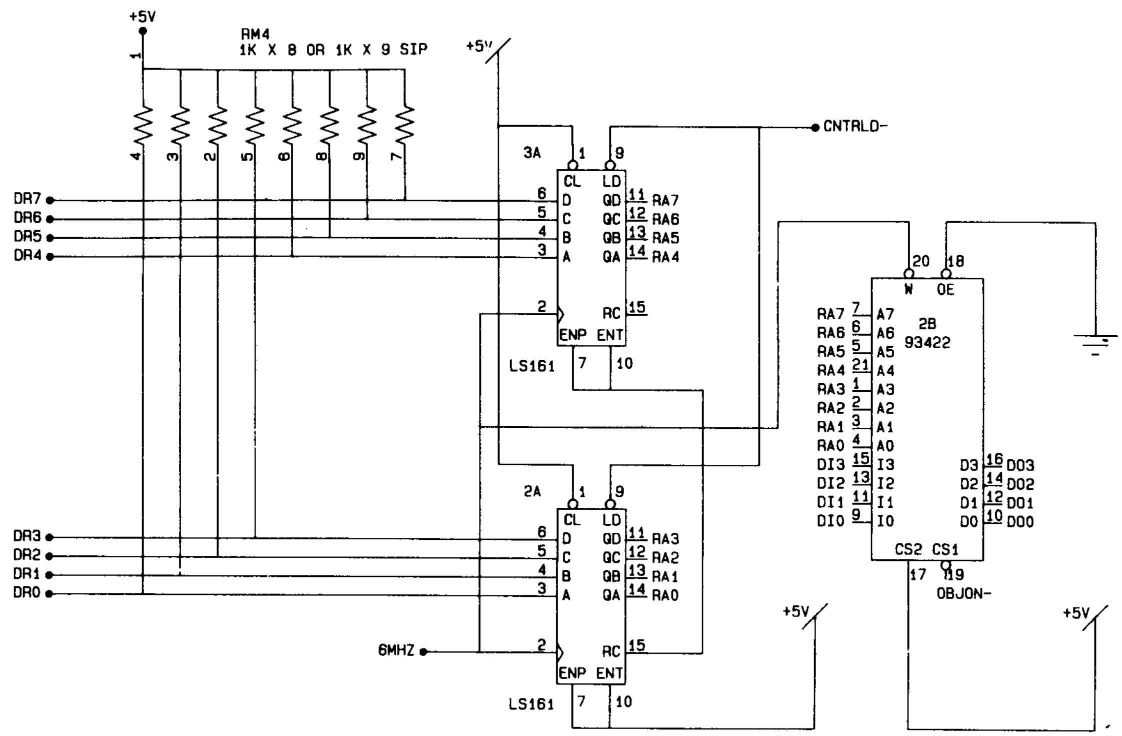
BRUNING· 40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES	FIRST USED ON: JR. PACMAN			Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SHEET 17 OF 22
UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. +.002 −.000 ANGLE ± 1/2°	DRN TBB	DATE 12/08/83	SCALE FULL		OBJECT ROM
	MECH CHK	MAT'L		JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	REVISIONS
DO NOT SCALE DWG.	ELEC CHK	FINISH			PART NO. M·0·5·1-0·0·A·2·9-C·0·1·0

BRUNING· 40·107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

SHEET 18 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC.
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA. + .002 − .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB
DATE: 12/08/83
SCALE: FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

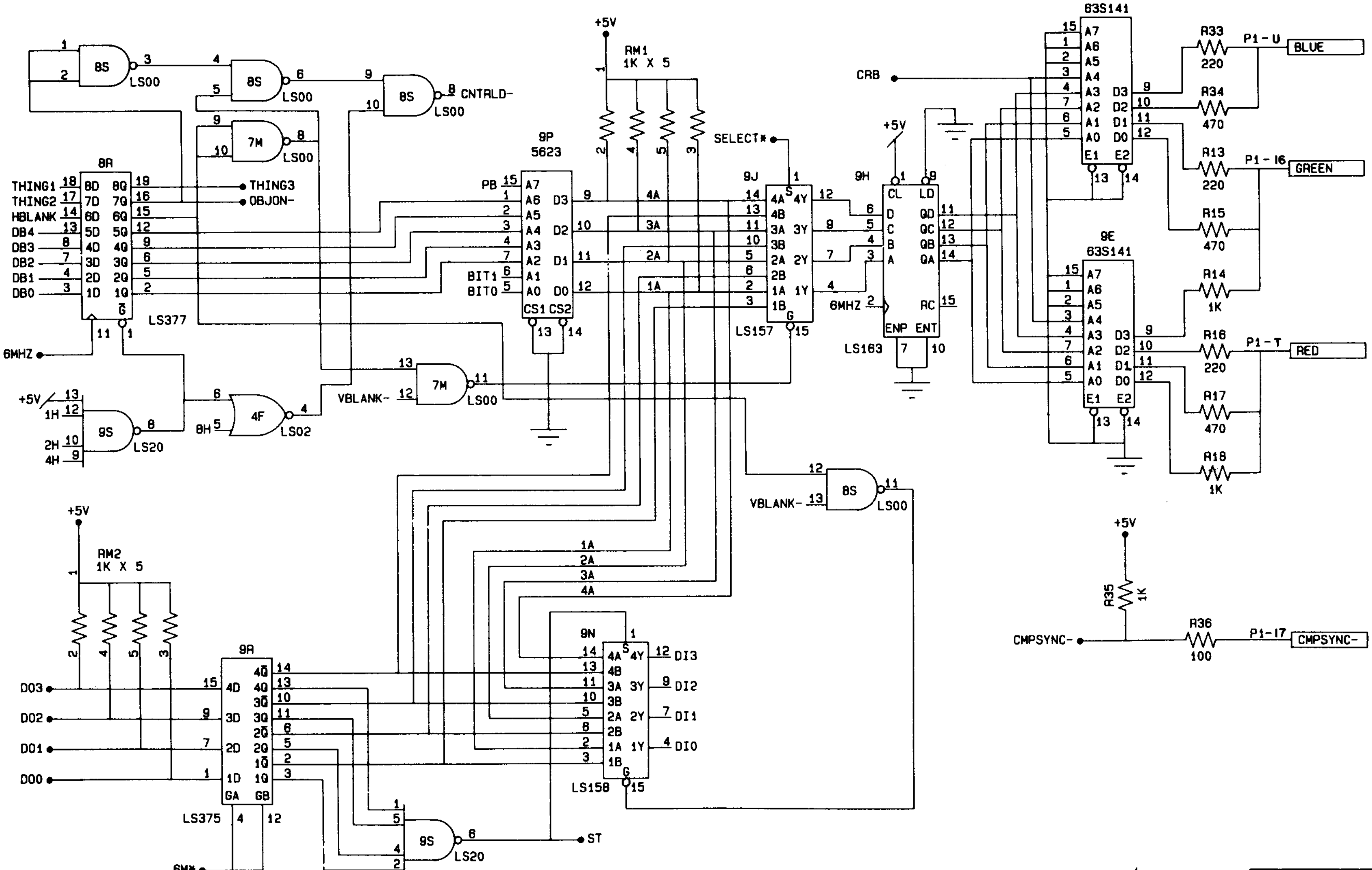
JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

LINE RAM

REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-C-0-1-0

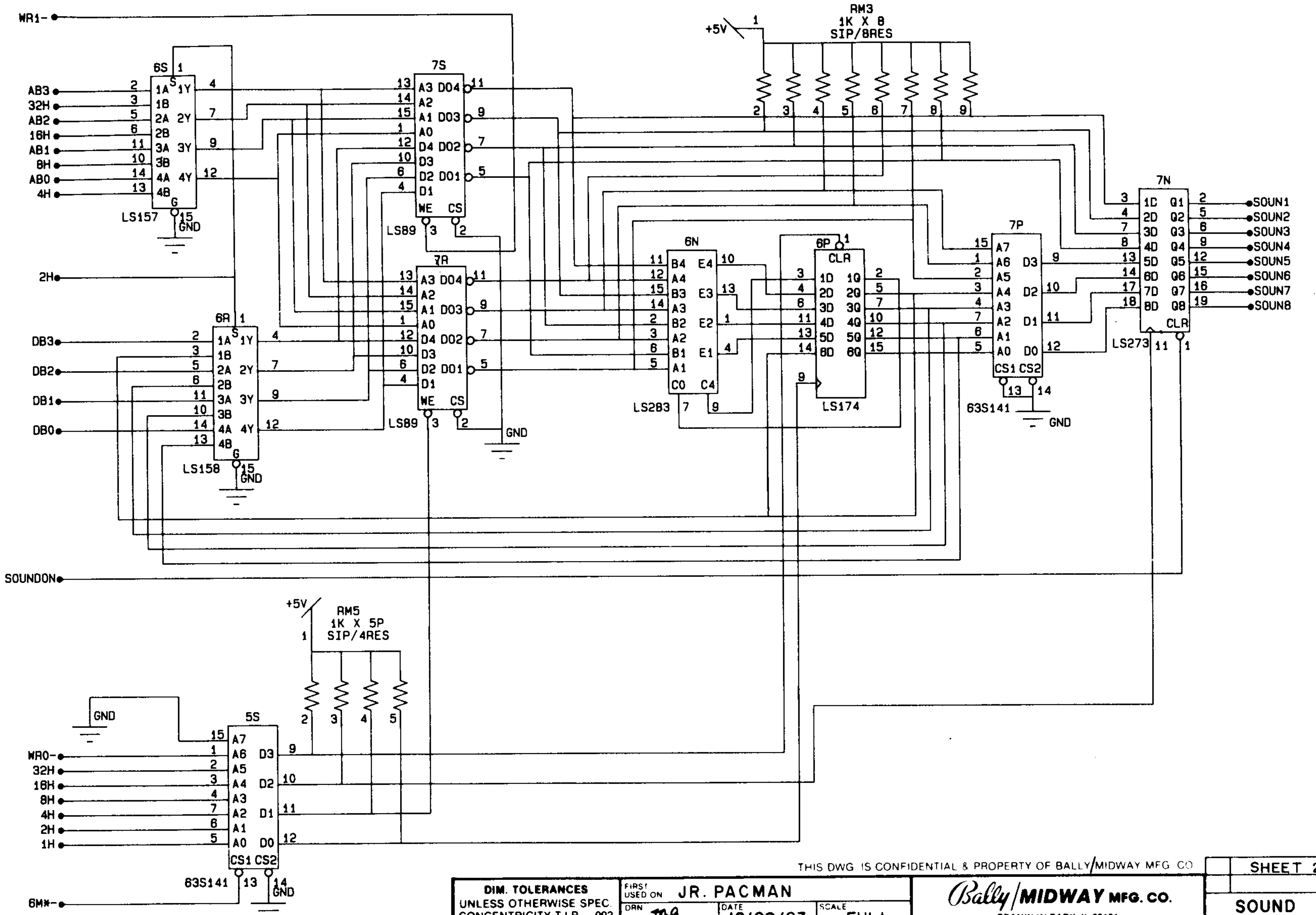
BRUNING-40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ...... ± 1/64 DECIMAL .... ± .005 HOLE DIA. .... + .002 – .000 ANGLE .... ± 1/2° DO NOT SCALE DWG.	FIRST USED ON JR. PACMAN DRN TBB / DATE 12/08/83 / SCALE FULL MECH CHK / MAT'L ELEC CHK / FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	SHEET 19 OF 22 COLOR ROM REVISIONS PART NO M·0·5·1-0·0·A·2·9-C·0·1·0

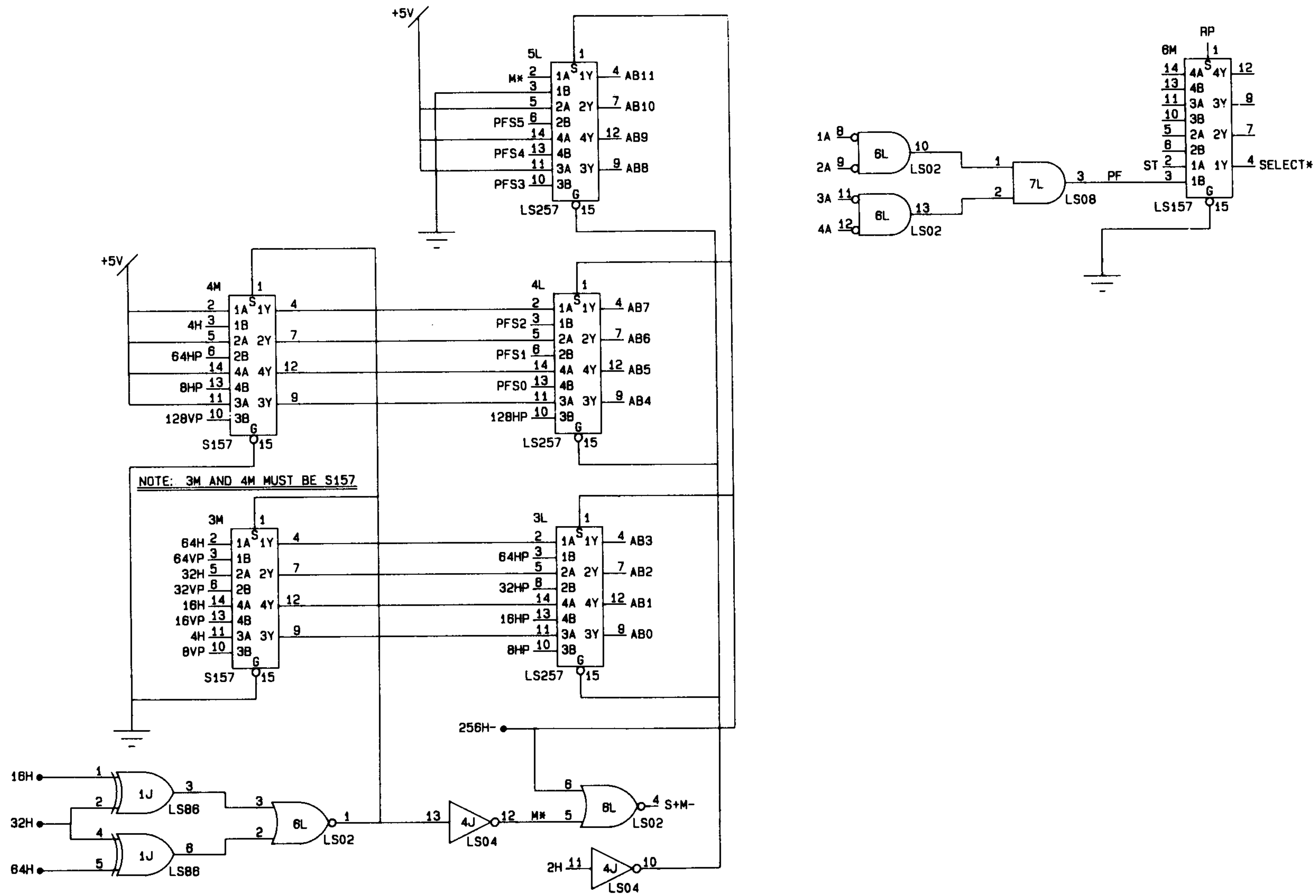
BRUNING· 40·107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA +.002 –.000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SHEET 20 OF 22
	DRN TBB / DATE 12/08/83 / SCALE FULL		SOUND
	MECH CHK / MAT'L	JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	**REVISIONS**
	ELEC CHK / FINISH		PART NO M-0-5-1-0-0-A-2-9-C-0-1-0

BRUNING 40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

SHEET 21 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA. + .002 – .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB
DATE: 12/08/83
SCALE: FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

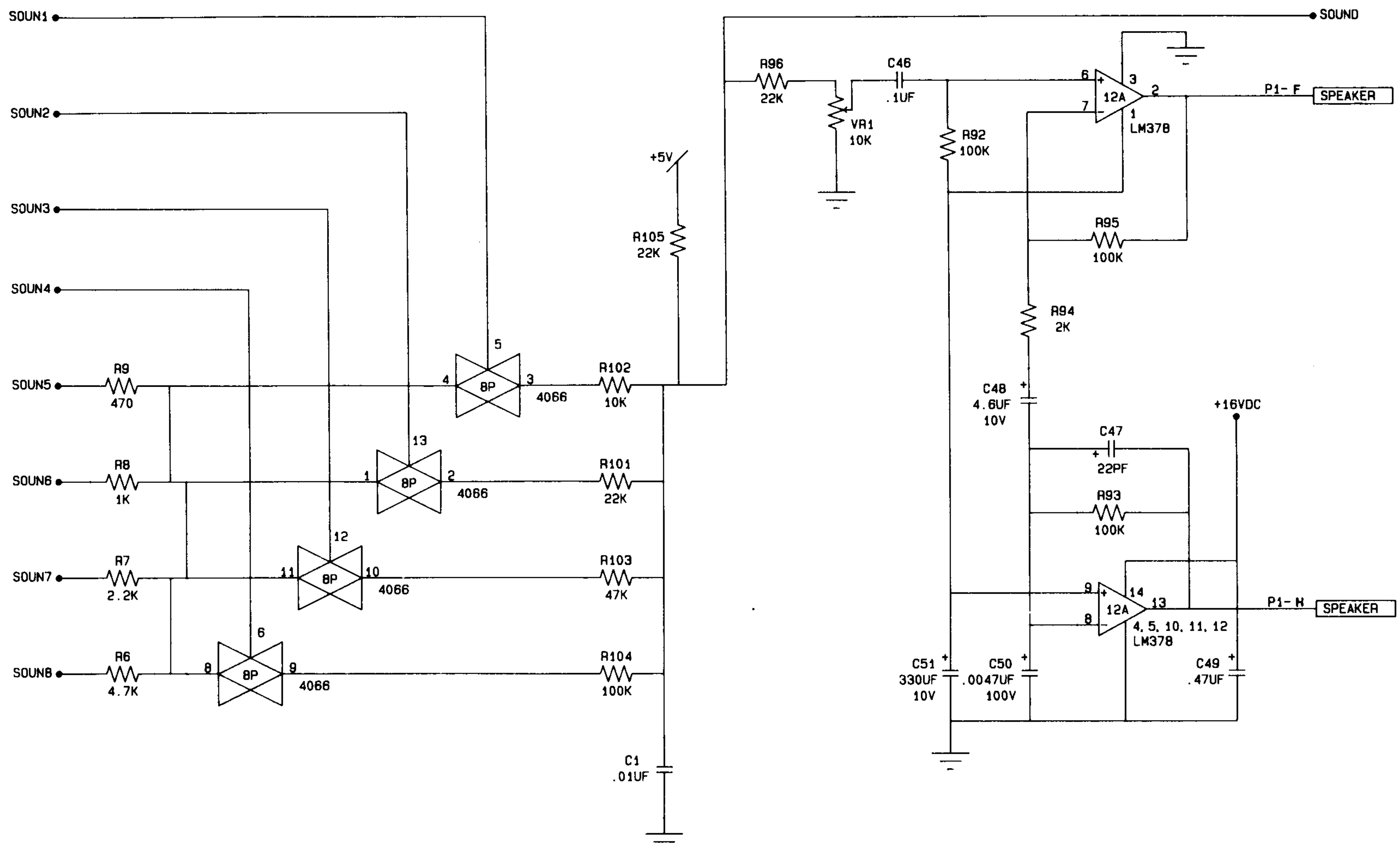
JR. PACMAN (CONVERSION)
LOGIC P.C.
A080-91688-CA29

PROMPT / STAMP VIDEO

REVISIONS

PART NO
M0-5-1-0-0-A-2-9-C-0-1-0

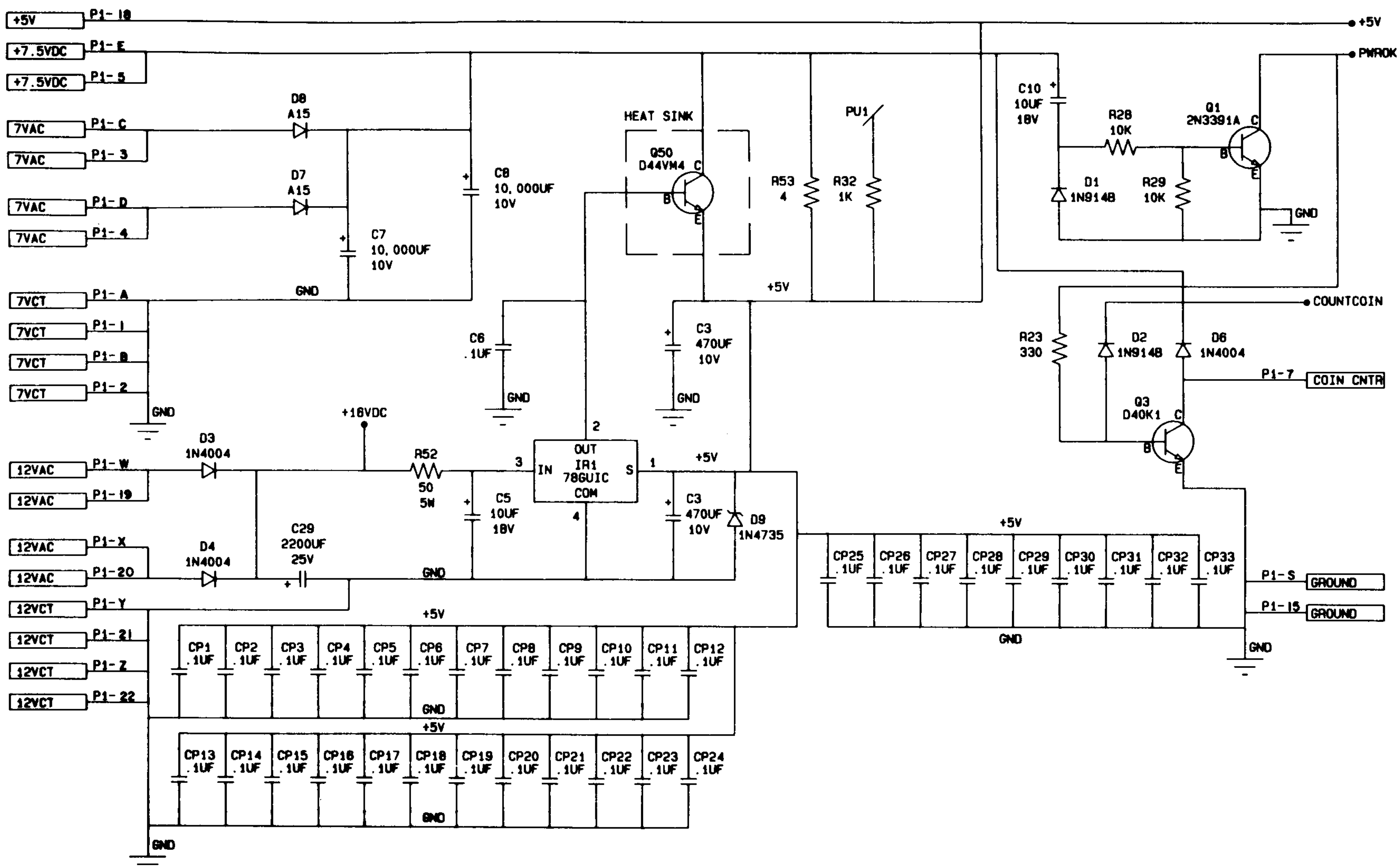
BRUNING 40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 − .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN / DRN TBB / DATE 12/08/83 / SCALE FULL / MECH CHK / MAT'L / ELEC CHK / FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 / JR. PACMAN (CONVERSION) LOGIC P.C. A080-91688-CA29	SHEET 22 OF 22 / AUDIO AMPLIFIER / REVISIONS / PART NO M-0-5-1-0-0-A-2-9-C-0-1-0

BRUNING 40-107



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG CO

SHEET 1 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC.
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA. +.002 -.000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB | DATE: 11/29/83 | SCALE: FULL
MECH CHK | MAT'L
ELEC CHK | FINISH

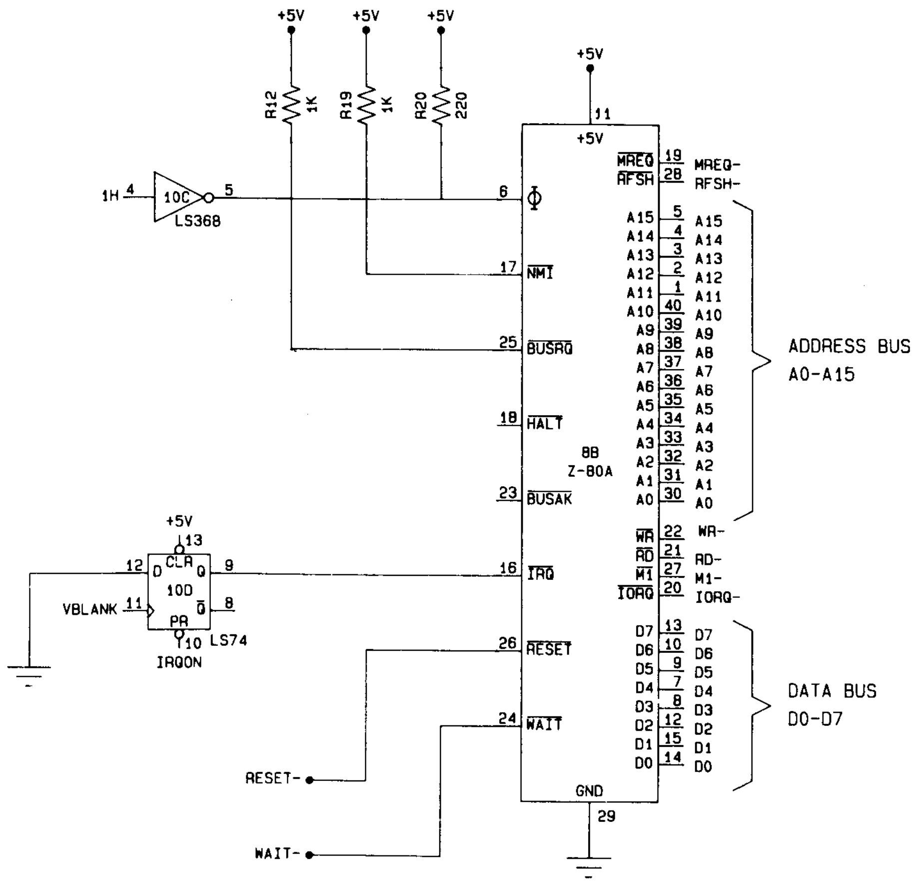
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-B-0-1-4

BRUNING 40-107



SHEET 2 OF 22

CPU

REVISIONS

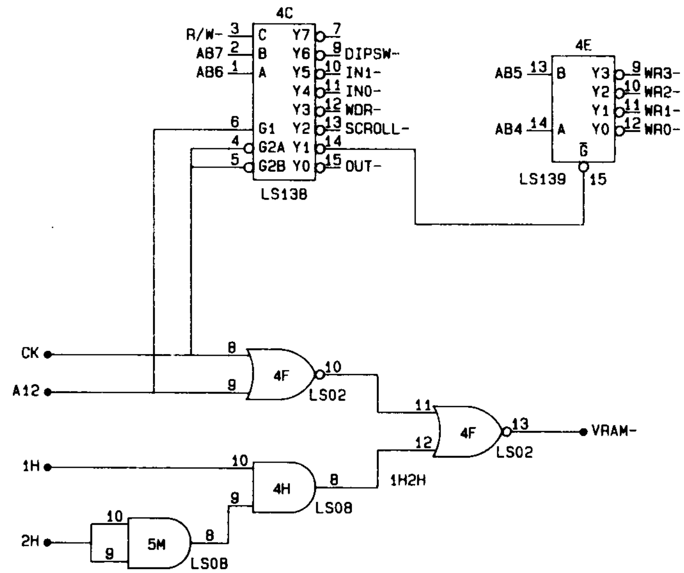
DIM. TOLERANCES
UNLESS OTHERWISE SPEC
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA + .002 – .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB
DATE: 11/29/83
SCALE: FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

PART NO
M-0-5-1-0-0-A-2-9-B-0-1-4



SHEET 3 OF 22

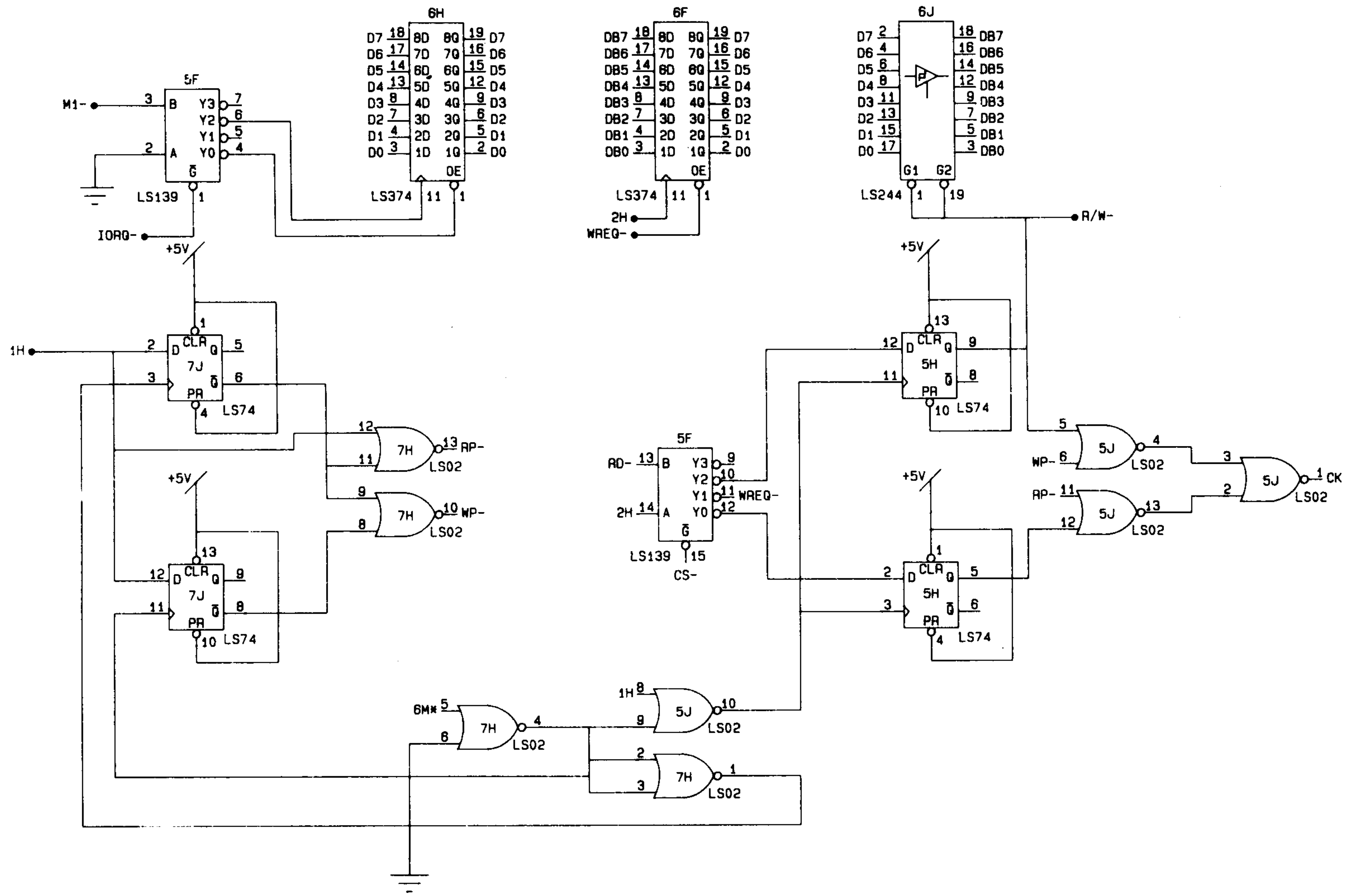
DIM. TOLERANCES
UNLESS OTHERWISE SPEC
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA + .002 – .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB | DATE: 11/29/83 | SCALE: FULL
MECH CHK | MAT'L
ELEC CHK | FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

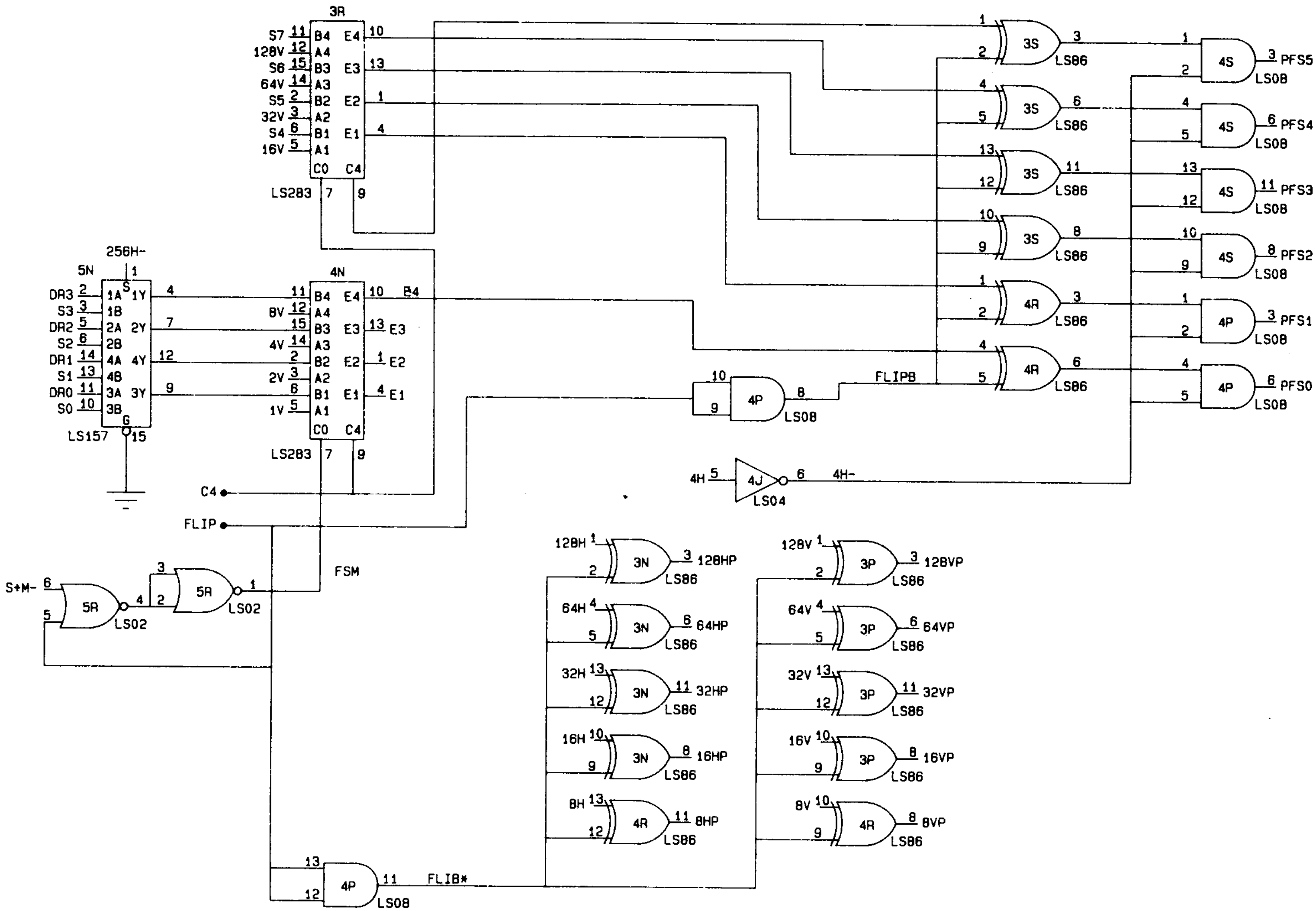
JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

ADDRESS DECODE
REVISIONS
PART NO
M·0·5·1-0·0·A·2·9-B·0·1·4



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° DO NOT SCALE DWG.	FIRST USED ON JR. PACMAN; DRN TBB; DATE 11/29/83; SCALE FULL; MECH CHK; MAT'L; ELEC CHK; FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 4 OF 22; SYNC BUS CONTROLLER; REVISIONS; PART NO M-0-5-1-0-0-A-2-9-B-0-1-4



DIM. TOLERANCES	
UNLESS OTHERWISE SPEC	
CONCENTRICITY T.I.R.	.002
FRACTIONAL	± 1/64
DECIMAL	± .005
HOLE DIA	+ .002 – .000
ANGLE	± 1/2°
DO NOT SCALE DWG.	

FIRST USED ON: JR. PACMAN

DRN: TBB — DATE: 11/29/83 — SCALE: FULL

MECH CHK — MAT'L — ELEC CHK — FINISH

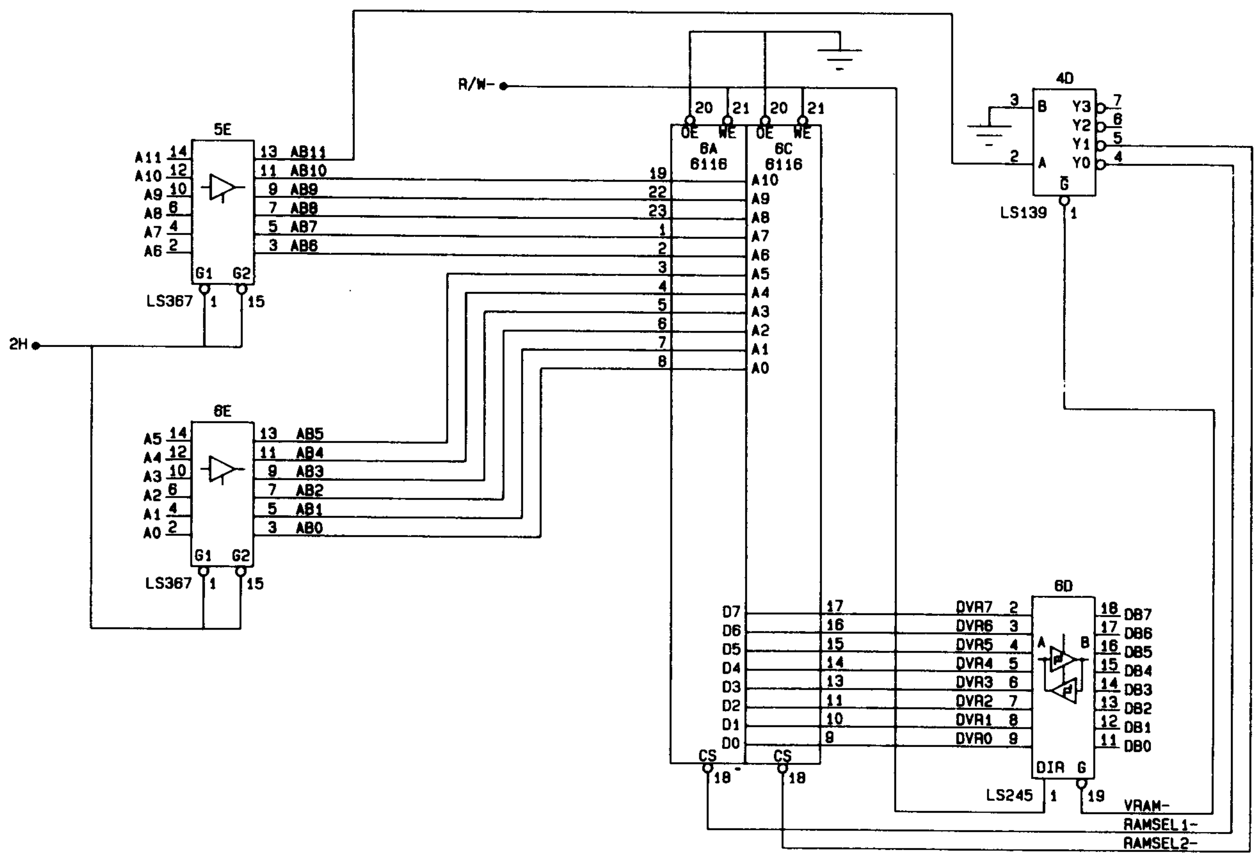
Bally/**MIDWAY** MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

SCROLLING / VIDEO

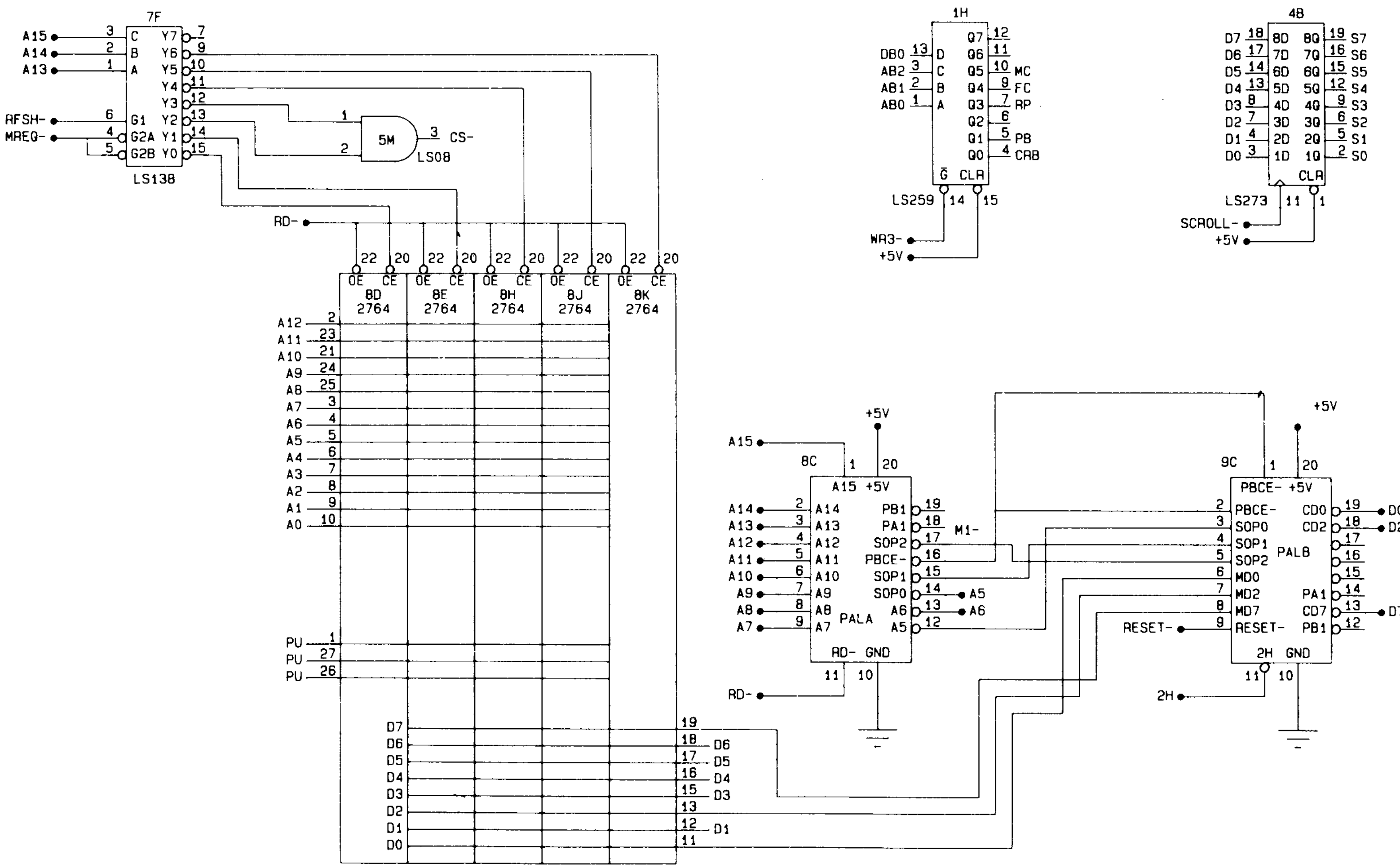
REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-B-0-1-4



DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. +.002 −.000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN DRN TBB · DATE 11/29/83 · SCALE FULL MECH CHK · MAT'L ELEC CHK · FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 6 OF 22 RAM **REVISIONS** PART NO M·0·5·1-0·0·A·2·9-B·0·1·4

BRUNING 40-107



SHEET 7 OF 22

DIM. TOLERANCES UNLESS OTHERWISE SPEC	
CONCENTRICITY T.I.R.	.002
FRACTIONAL	± 1/64
DECIMAL	± .005
HOLE DIA	+ .002 − .000
ANGLE	± 1/2°
DO NOT SCALE DWG.	

FIRST USED ON: JR. PACMAN

DRN: TBB | DATE: 11/29/83 | SCALE: FULL

MECH CHK | MAT | ELEC CHK | FINISH

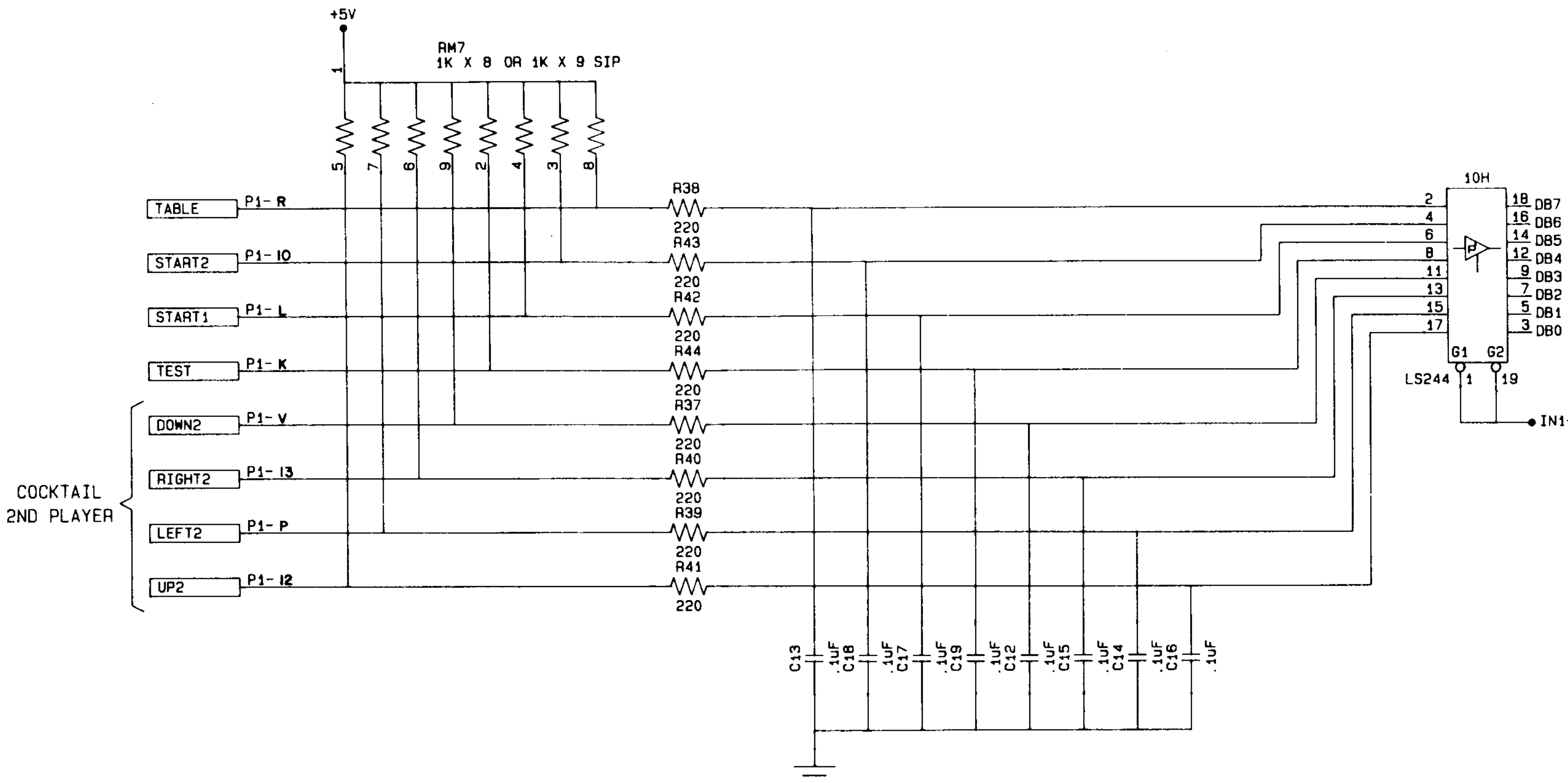
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

ROM

REVISIONS

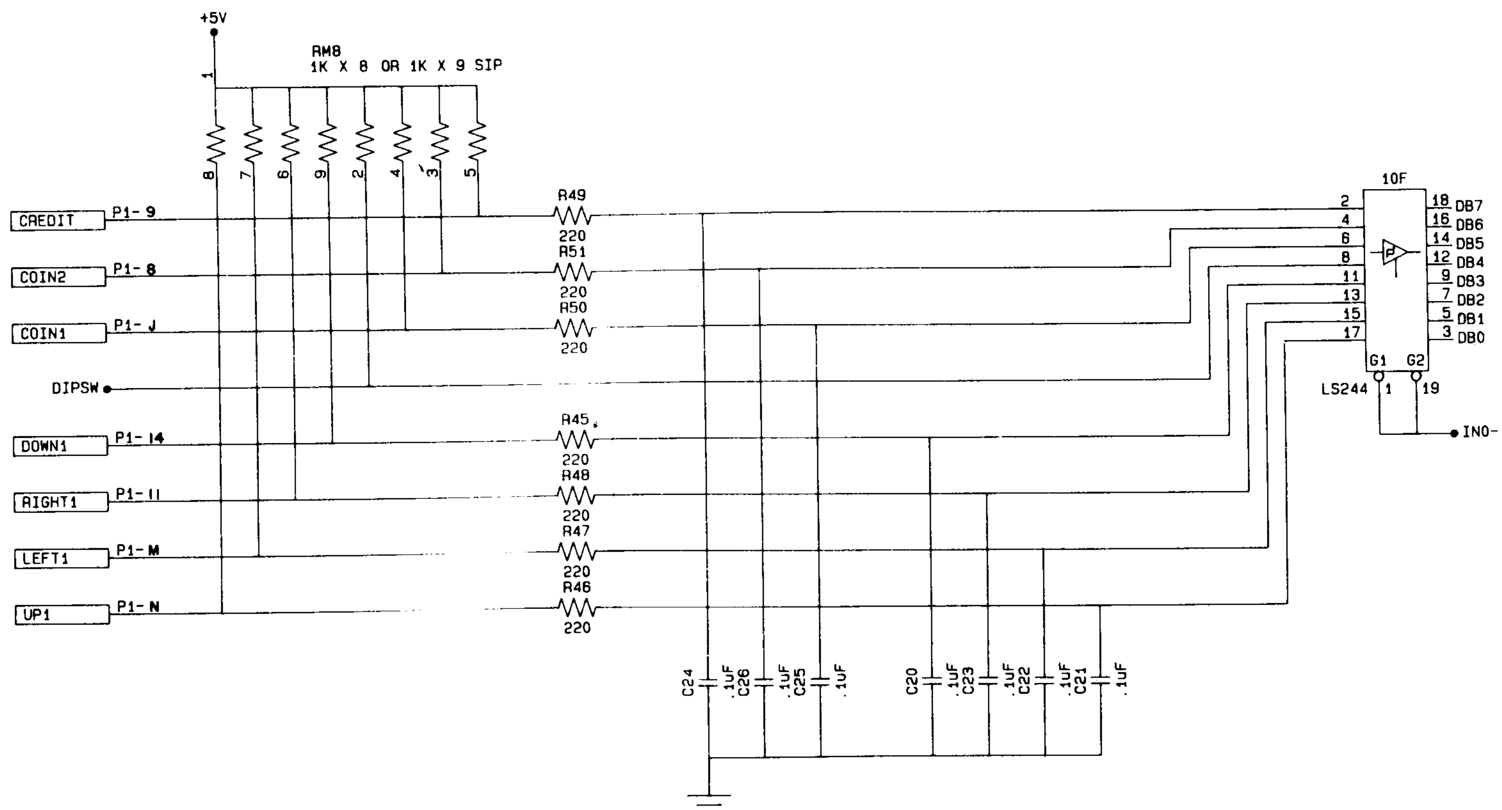
PART NO. M0 5 1-0 0 A 2 9 - B 0 1 4



SHEET 8 OF 22

DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° DO NOT SCALE DWG.	FIRST USED ON JR. PACMAN DRN TBB · DATE 11/29/83 · SCALE FULL MECH CHK · MAT'L ELEC CHK · FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	DIGITAL IN1 REVISIONS PART NO M·0·5·1-0·0·A·2·9-B·0·1·4

BRUN NG 40-107



SHEET 9 OF 22

DIGITAL IN2

REVISIONS

DIM. TOLERANCES
UNLESS OTHERWISE SPEC
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA + .002 − .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

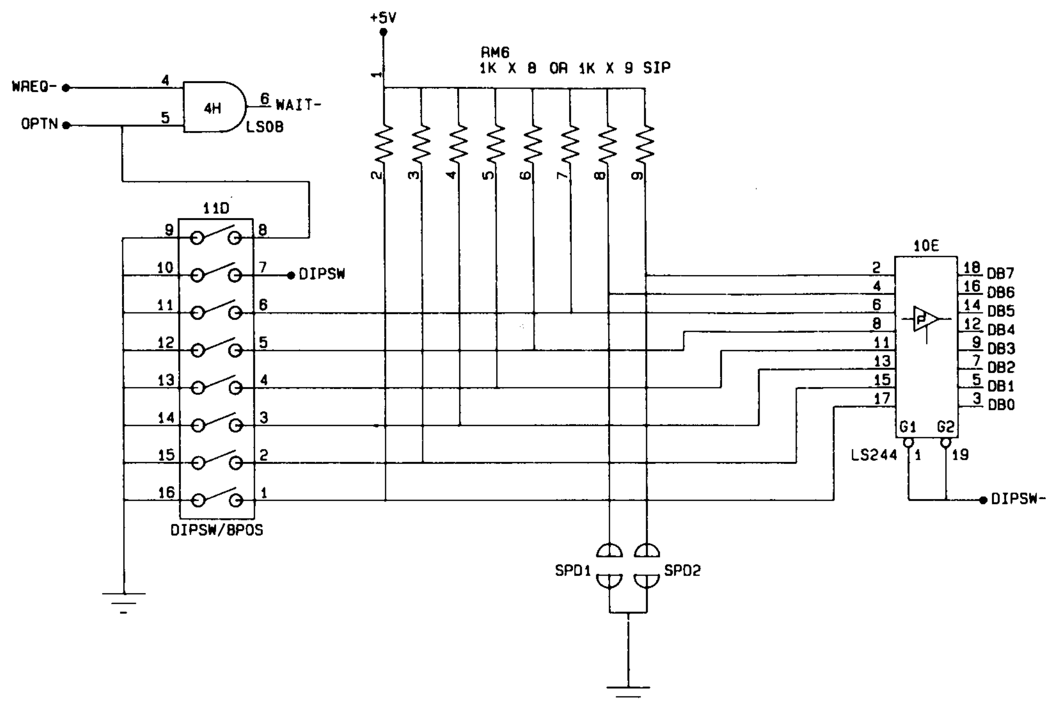
FIRST USED ON JR. PACMAN
DRN TBB
DATE 11/29/83
SCALE FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

PART NO
M-0-5-1-0-0-A-2-9-B-0-1-4

BRUN NO. 40-107



SHEET 10 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA + .002 − .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB
DATE: 11/29/83
SCALE: FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

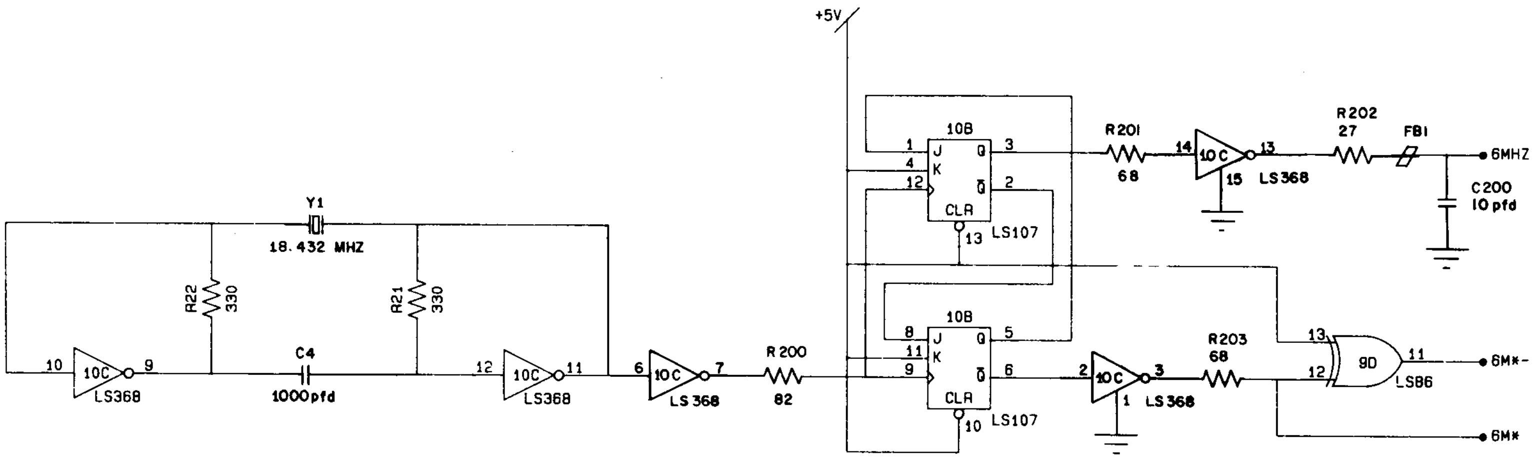
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

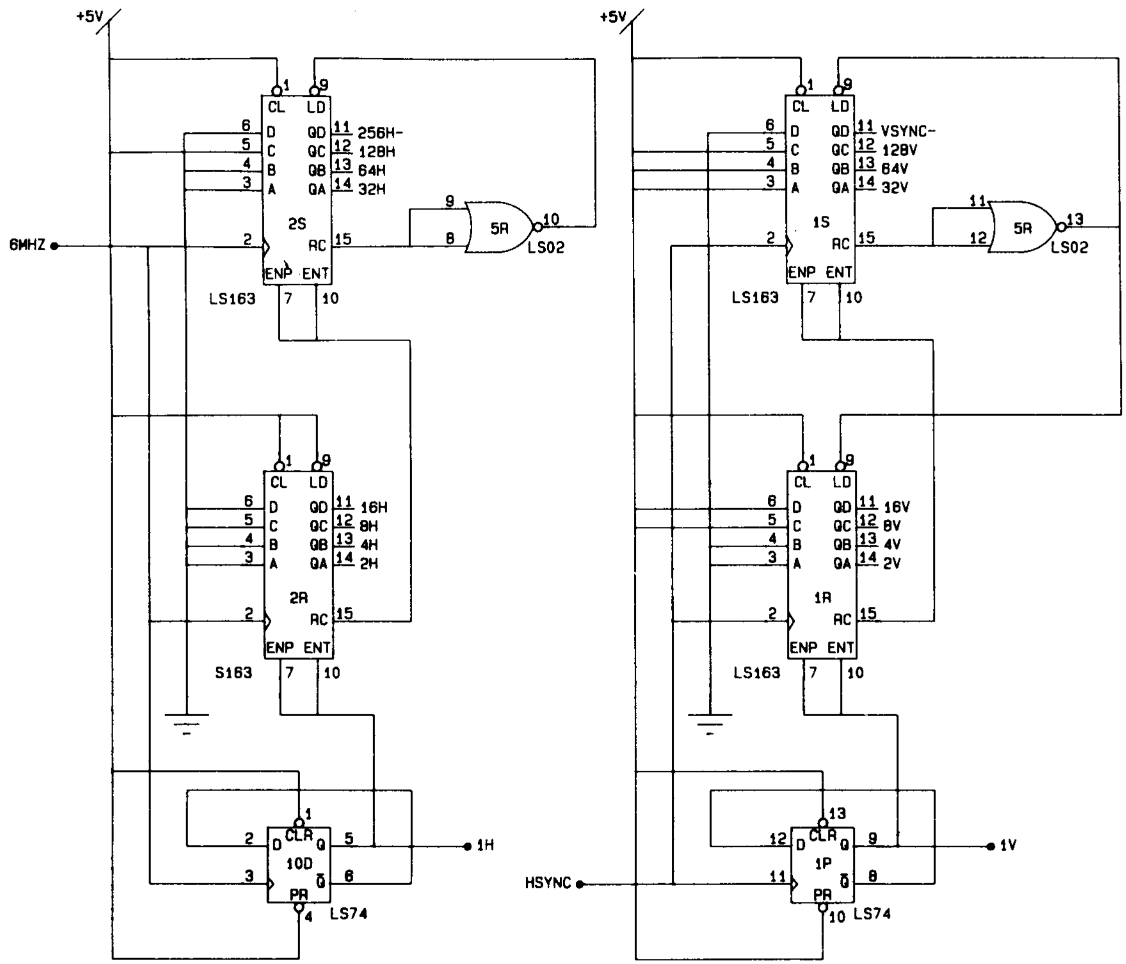
DIPSWITCH

REVISIONS

PART NO
M·0·5·1-0·0·A·2·9-B·0·1·4



DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON: JR. PACMAN DRN: TBB DATE: 11/29/83 SCALE: FULL MECH CHK: MAT'L: ELEC CHK: FINISH:	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 11 OF 22 CLOCK GENERATOR REVISIONS PART NO M-0-5-1-0-0-A-2-9-B-0-1-4



THIS DWG IS CONFIDENTIAL & PROPERTY OF BALLY/MIDWAY MFG. CO.

SHEET 12 OF 22

DIM. TOLERANCES
UNLESS OTHERWISE SPEC
CONCENTRICITY T.I.R. .002
FRACTIONAL ± 1/64
DECIMAL ± .005
HOLE DIA + .002 – .000
ANGLE ± 1/2°
DO NOT SCALE DWG.

FIRST USED ON: JR. PACMAN
DRN: TBB
DATE: 11/29/83
SCALE: FULL
MECH CHK
MAT'L
ELEC CHK
FINISH

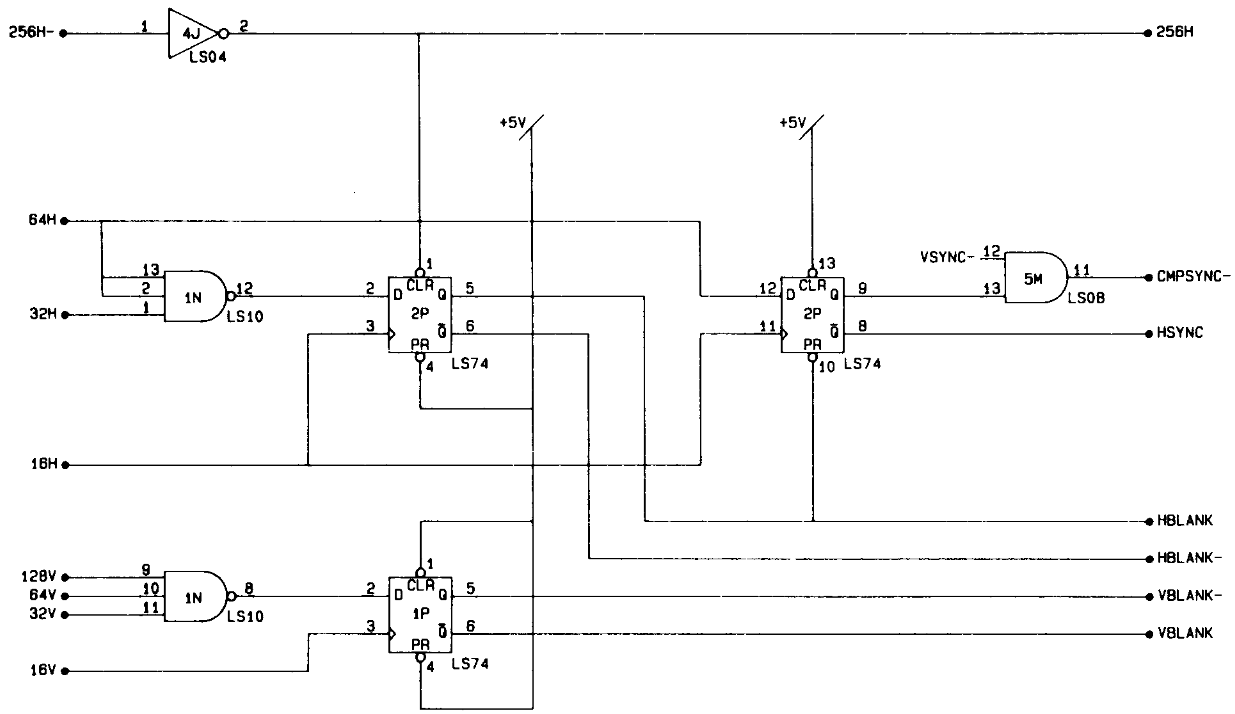
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

SYNC GENERATOR

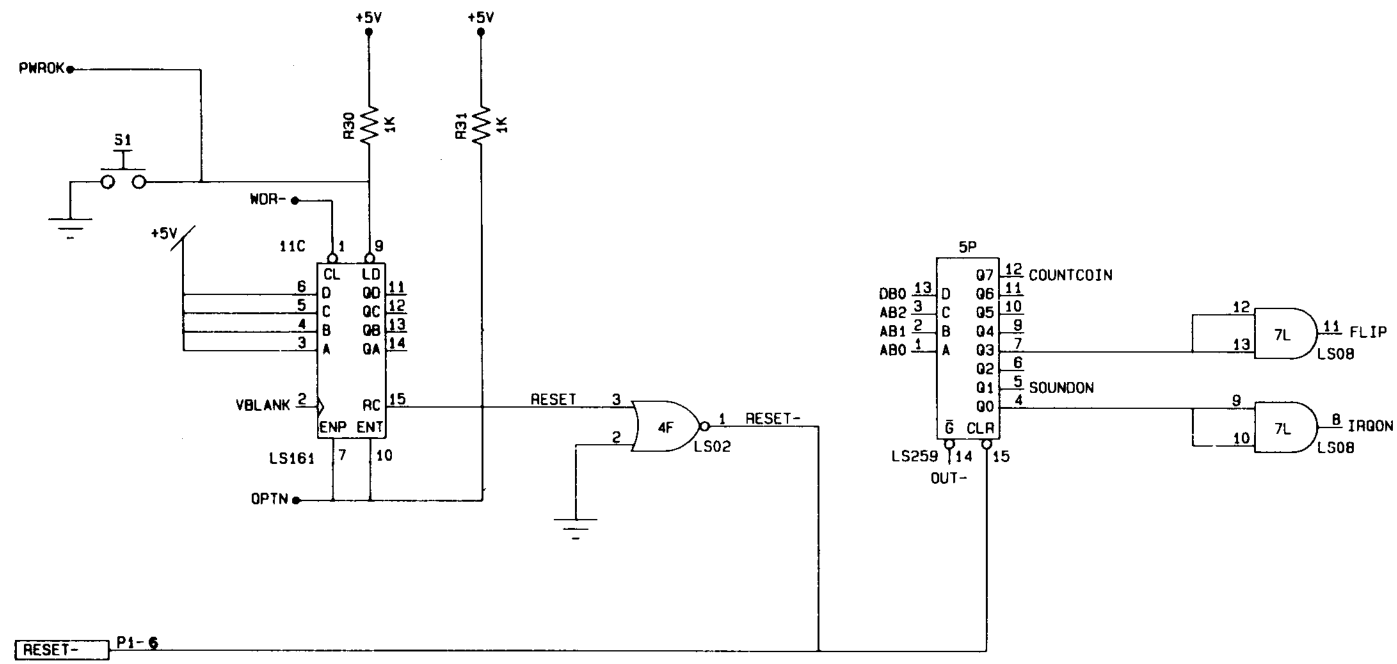
REVISIONS

PART NO
M·0·5·1-0·0·A·2·9-B·0·1·4

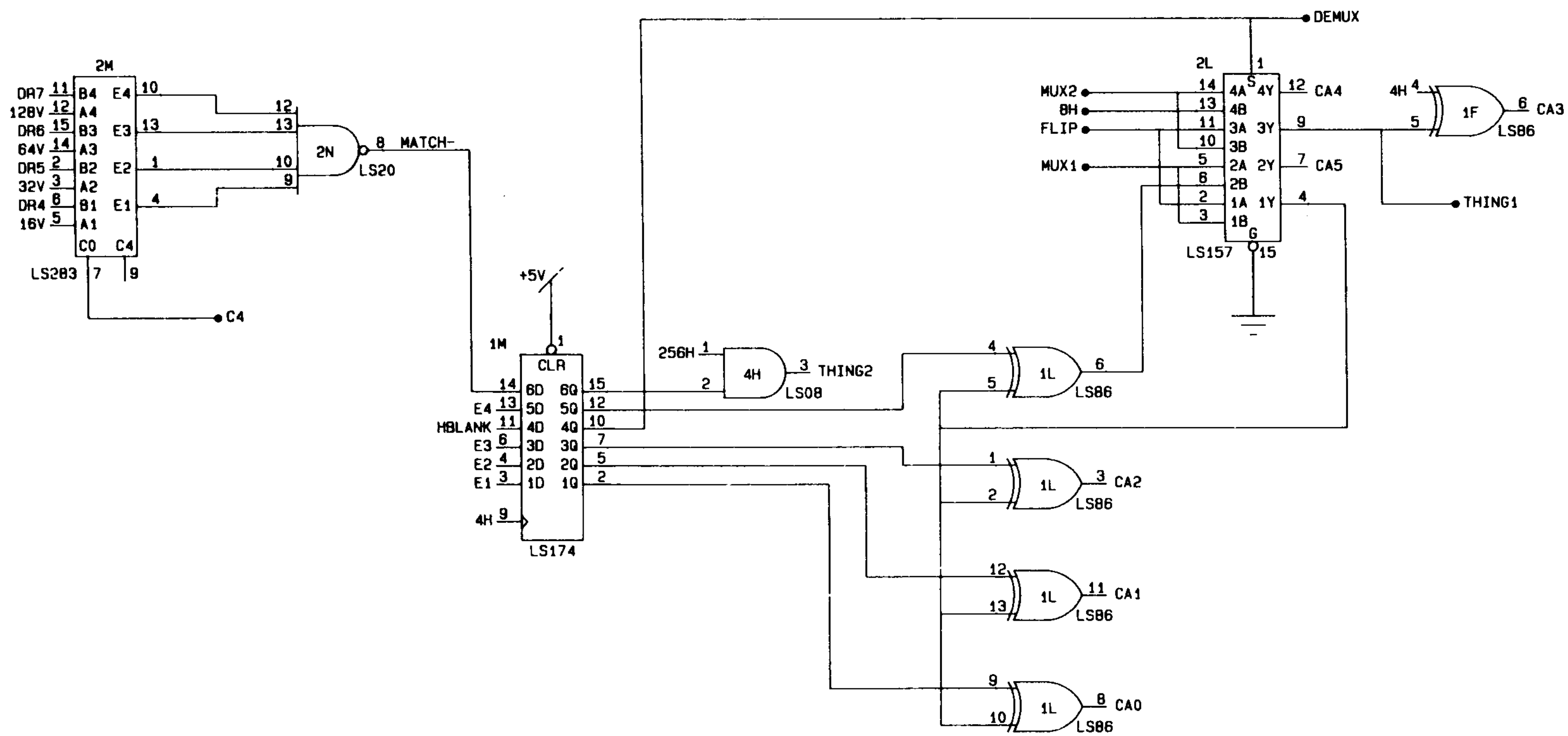


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DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA. + .002 – .000 ANGLE ± 1/2° DO NOT SCALE DWG.	FIRST USED ON JR. PACMAN	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131	SHEET 13 OF 22
	DRN TBB · DATE 11/29/83 · SCALE FULL		BLANK GENERATOR
	MECH CHK · MAT'L	JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	REVISIONS
	ELEC CHK · FINISH		PART NO M-0-5-L-0-0-A-2-9-B-0-1-4



DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° DO NOT SCALE DWG.	FIRST USED ON JR. PACMAN DRN TBB / DATE 11/29/83 / SCALE FULL MECH CHK / MAT'L ELEC CHK / FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 14 OF 22 RESET IRQ REVISIONS PART NO M·0·5·1-0·0·A·2·9-B·0·1·4



SHEET 15 OF 22

DIM. TOLERANCES UNLESS OTHERWISE SPEC	
CONCENTRICITY T.I.R.	.002
FRACTIONAL	± 1/64
DECIMAL	± .005
HOLE DIA	+ .002 − .000
ANGLE	± 1/2°
DO NOT SCALE DWG.	

FIRST USED ON: JR. PACMAN
DRN: TBB DATE: 11/29/83 SCALE: FULL
MECH CHK MAT'L
ELEC CHK FINISH

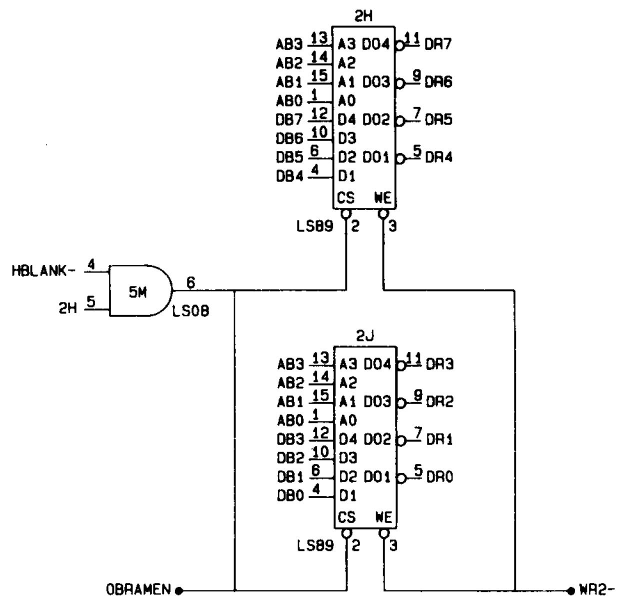
Bally/MIDWAY MFG. CO.
FRANKLIN PARK IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

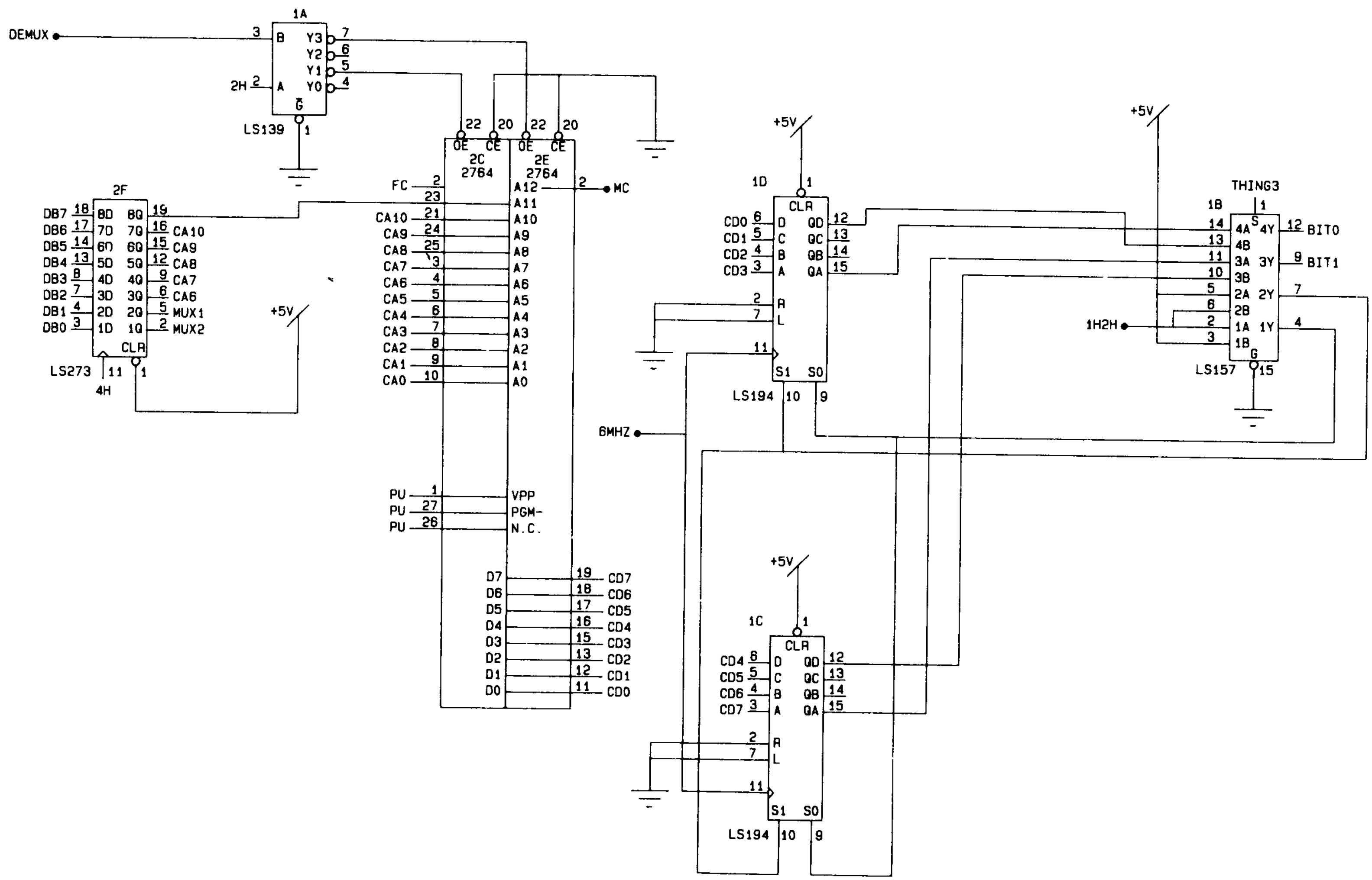
VERT. ADDRESS TIMING

REVISIONS

PART NO
M-0-5-1-0-0-A-2-9-B-0-1-4

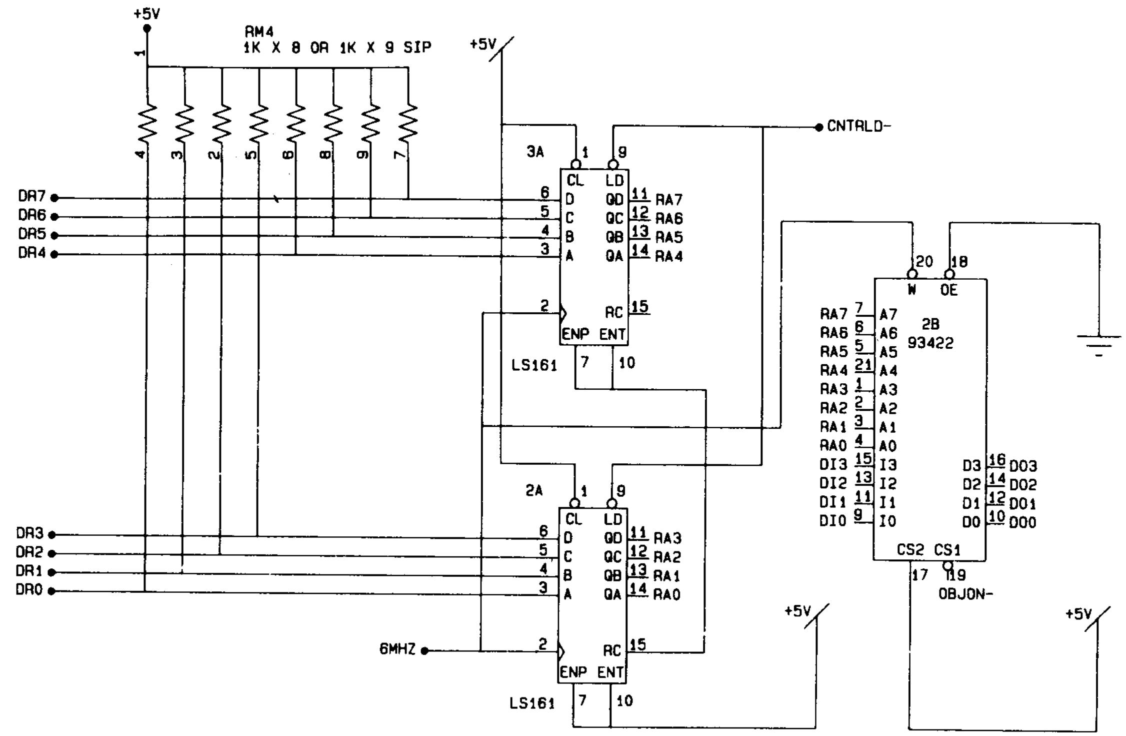


DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN DRN TBB · DATE 11/29/83 · SCALE FULL MECH CHK · MAT'L ELEC CHK · FINISH	Bally/**MIDWAY MFG. CO.** FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 16 OF 22 OBJECT RAM **REVISIONS** PART NO M·0·5·1·0·0·A·2·9·B·0·1·4



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DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° DO NOT SCALE DWG.	FIRST USED ON: JR. PACMAN DRN: TDB DATE: 11/29/83 SCALE: FULL MECH CHK MAT'L ELEC CHK FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 17 OF 22 OBJECT ROM REVISIONS PART NO M·0·5·1-0·0·A·2·9-B·0·1·4



SHEET 18 OF 22

DIM. TOLERANCES UNLESS OTHERWISE SPEC	
CONCENTRICITY T.I.R.	.002
FRACTIONAL	± 1/64
DECIMAL	± .005
HOLE DIA	+ .002 − .000
ANGLE	± 1/2°
DO NOT SCALE DWG.	

FIRST USED ON: JR. PACMAN

DRN: TBB — DATE: 11/29/83 — SCALE: FULL

MECH CHK — MATL

ELEC CHK — FINISH

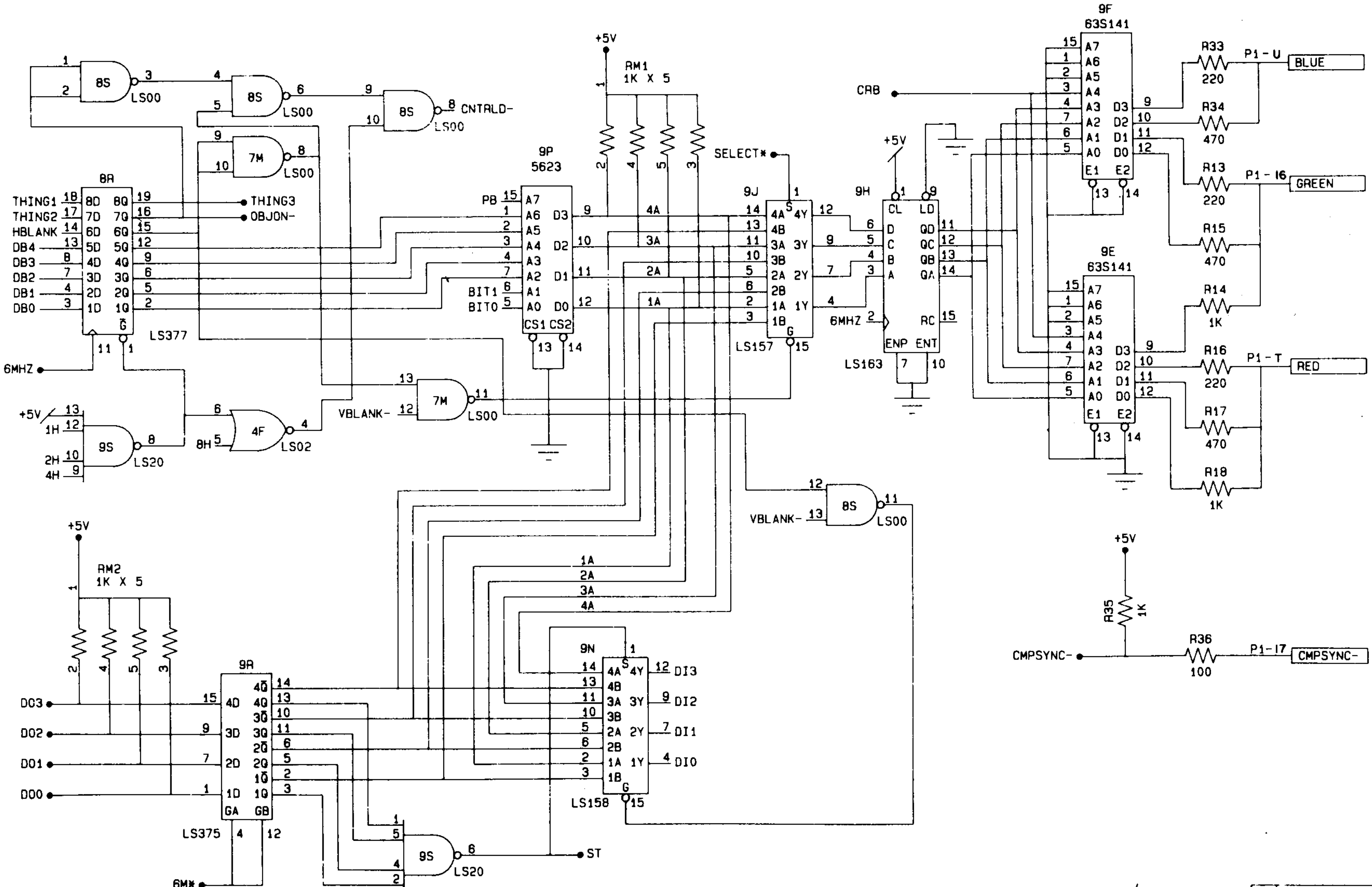
Bally/MIDWAY MFG. CO.
FRANKLIN PARK, IL 60131

JR. PACMAN (FIELD KIT)
LOGIC P.C.
A080-91694-BA29

LINE RAM

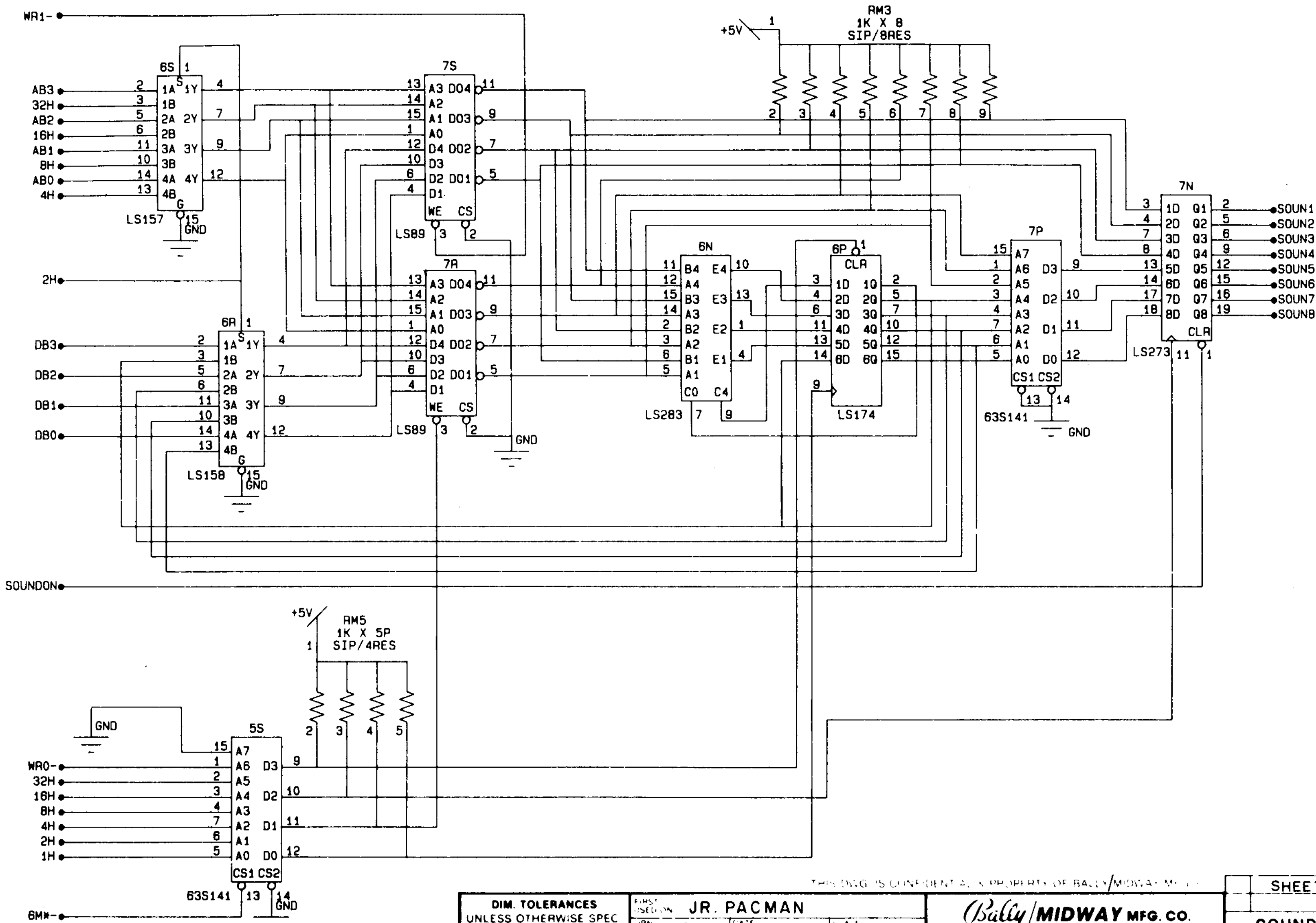
REVISIONS

PART NO
M·O·5·1-O·O·A·2·9-B·O·1·4



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DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON JR. PACMAN DRN TBB · DATE 11/29/83 · SCALE FULL MECH CHK · MAT ELEC CHK · FINISH	Bally/**MIDWAY MFG. CO.** FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 19 OF 22 COLOR ROM **REVISIONS** PART NO. M·0·5·1-0·0·A·2·9-B·0·1·4



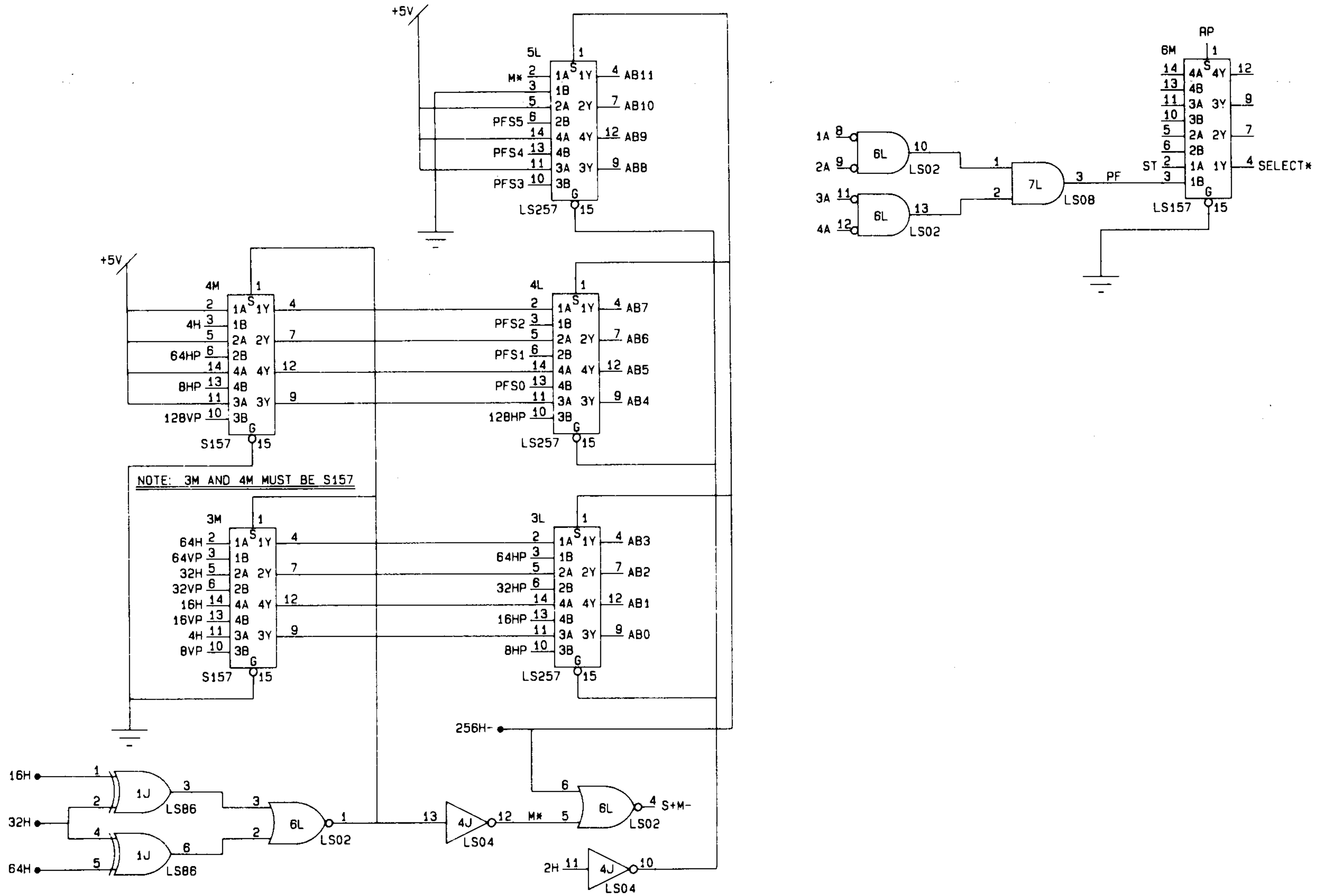
DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2° **DO NOT SCALE DWG.**	FIRST USED ON: JR. PACMAN DRN: TBB DATE: 11/29/83 SCALE: FULL MECH CHK MAT'L ELEC CHK FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29

SHEET 20 OF 22

SOUND

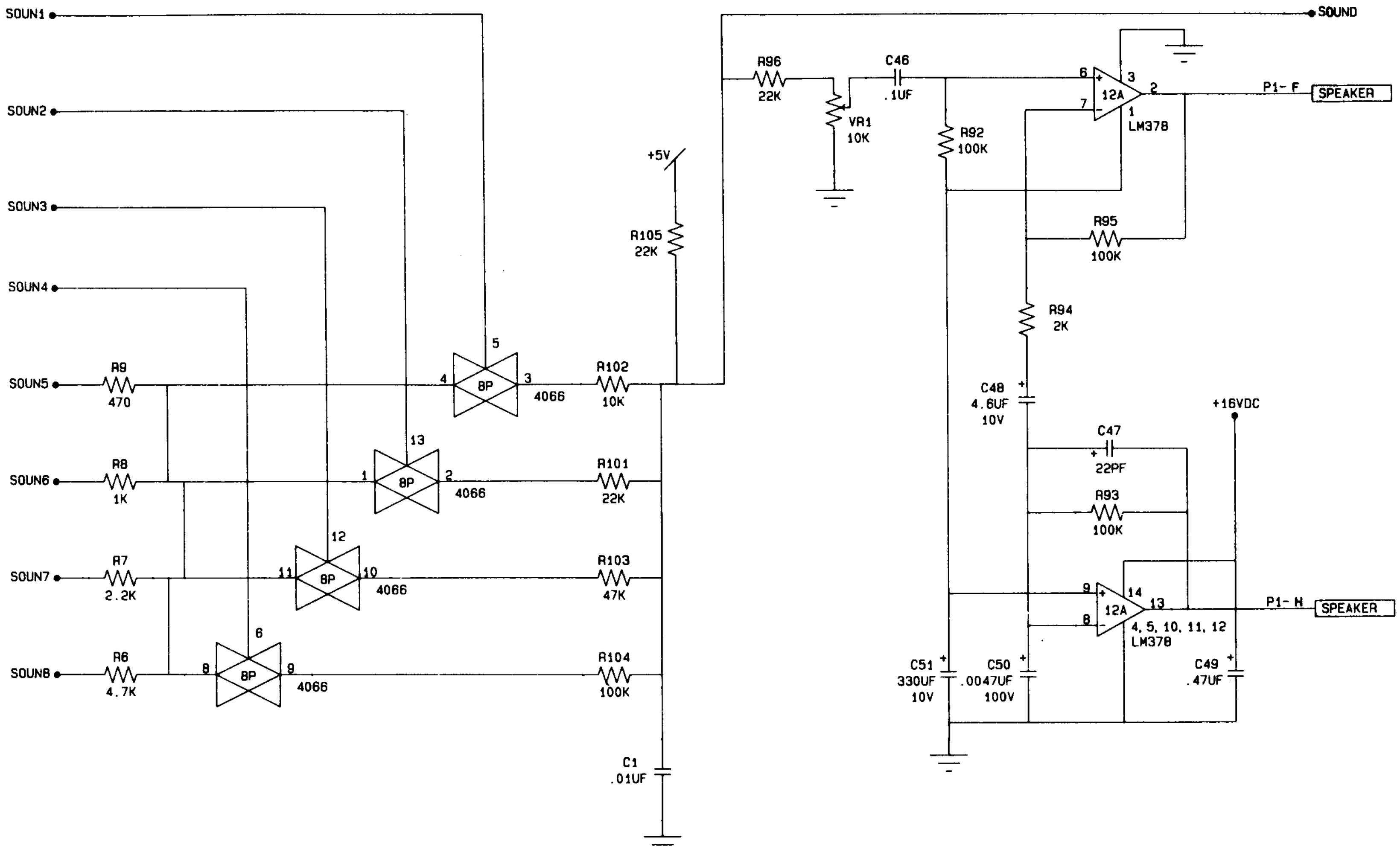
REVISIONS

PART NO. M-0-5-1-0-0-A-2-9-B-0-1-4



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DIM TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 – .000 ANGLE ± 1/2 **DO NOT SCALE DWG.**	JR. PACMAN; DR.: TBB; DATE: 11/29/83; SCALE: FULL; MECH. CHK.; MAT.; ELEC. CHK.; FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK IL 60131 — JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 21 OF 22 — PROMPT/STAMP VIDEO — REVISIONS — PART NO M-0-5-1-0-0-A-2-9-B-0-1-4



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DIM. TOLERANCES UNLESS OTHERWISE SPEC CONCENTRICITY T.I.R. .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 − .000 ANGLE ± 1/2° DO NOT SCALE DWG.	FIRST USED ON JR. PACMAN DRN TBB · DATE 11/29/83 · SCALE FULL MECH CHK · MAT'L ELEC CHK · FINISH	Bally/MIDWAY MFG. CO. FRANKLIN PARK, IL 60131 JR. PACMAN (FIELD KIT) LOGIC P.C. A080-91694-BA29	SHEET 22 OF 22 AUDIO AMPLIFIER REVISIONS PART NO M0·5·1-0·0·A·2·9-B·0·1·4